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CHEMIST AND DRUGGIST
RETAILER - WHOLESALER - MANUFACTURER
DECEMBER 4, 1948

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PACKED PHARMACEUTICALS

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Index to Advertisers pp. 5 & 6

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GLUCO - THRICIL

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THROAT LOZENGES
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- **They provide worth-while profits**
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- **There are some attractive BONUS TERMS available.**

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STAINES ROAD, HOUNSLOW, MIDDLESEX
Inc. U.S.A., Liability Ltd.

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It's advertised as a Chemist's line

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22/- Pack
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in tubes

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★ Macleans Shaving Cream is still av able in cartoned jars which retail at 1s

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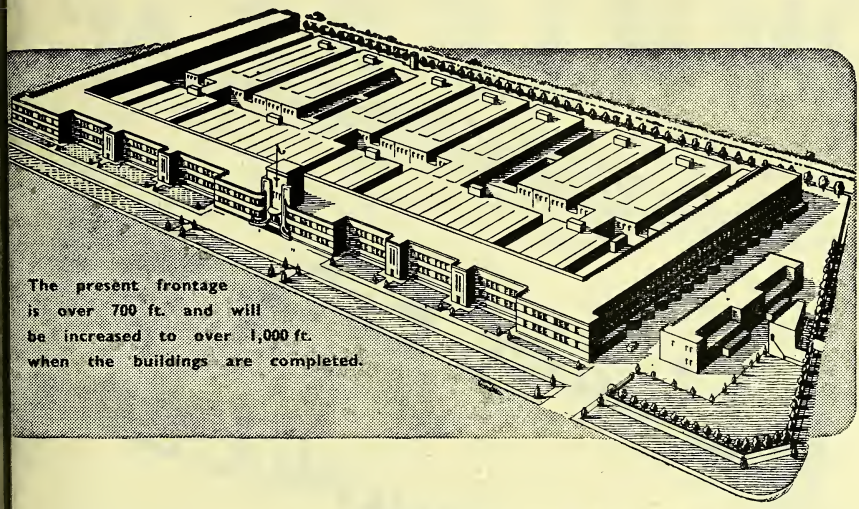

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INDEX TO ADVERTISERS

is, Ltd. 16
n, J., Rubber Co., Ltd.... xx
o, Ltd. xxix
nsons 33

ey, R., & Son, Ltd. vi
nes, M. H. .....Col. Supp.
lfast Telegraph" xxxiv
John, Hills & Lucas,
d. .....Leader Page
g, J., & Sons, Ltd. xxii
oldia, Ltd. 22
rley, S. E. R., Ltd. 22
sh Drug Houses, Ltd.,
ne 6
sh Dyewood Co., Ltd. ii
sh Schering, Ltd. 20
at Manufacturing Co.
d. xii
tan, Ltd. xxiv
oyne Burbidges & Co.,
d. i
ough, James, Ltd.
Leader Page
oughs Wellcome & Co.... 35
y, Winter, & Co., Ltd. xi
, Beach & Gent, Ltd. ... vii
, W. J., & Co., Ltd. ... v

s, Ltd. xxxiv
s, A., & Sons, Ltd. ix
Laboratories, Ltd. 36

Continental Laboratories, Ltd. 22
Cow, P. B., & Co., Ltd. ix
Cox, Arthur H., & Co., Ltd.
Cover iv
Croda, Ltd. 30
Curacho Co. .....Leader Page
Cussons, Sons & Co., Ltd.
Cover iii
Cuticura Preparations 12

Dae Health Laboratories,
Ltd. xxxiii
Daniel, Richard, & Son, Ltd. 13
Davis, Richard xxvi
Dearborn (1923), Ltd. xxxii
Dring, J., Ltd. xiii
Duncan, Flockhart & Co., ... iv

East, Lewis, Ltd. .....Col. Supp.
Edme, Ltd. xxiv
Edosan, Ltd. xxviii
English Grains Co., Ltd. 10
Evans, Adlard & Co., Ltd. ... iv
Evans Medical Supplies, Ltd. 3

Fassett & Johnson, Ltd. 31
Faylene Manufacturing Co. xxvi
Freudentheil, Smith & Co.
Leader Page
Fubex, Ltd. xv

Gardiner & Co. (The Scotch
House), Ltd. xi
Gardner, W., & Sons, (Glos.),
Ltd. x
Gillette Industries, Ltd. xxiii
Glaxo Laboratories, Ltd. 30
Gould, N. & M., Ltd. xxviii
Graesser Salicylates, Ltd. vii

Hall, Forster & Co., Ltd. ... 30
Harley, T., Ltd. 22
Harwoods Laboratories, Ltd. xxxvi
Hersom A. G. ii
Herts Pharmaceuticals, Ltd. . 10
Hirst, Stuart, Ltd. ...Leader Page
Hobson, Trimble & Co., Ltd. viii

Ilex Supply Co., Ltd. 32
Industrial Tapes, Ltd.
Leader Page
Institute of Chemists-Opti-
cians .....Col. Supp.
International Chemical Co.,
Ltd. xxxv

Jeffreys, Miller & Co., Ltd.... 24
Jenner Institute for Calf
Lymph, Ltd. 24
Johnson Brothers 15

(continued overleaf)

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It is palatable and pleasant to take.

It speeds the recovery of the convalescent, and quickly restores energy and cheerfulness in the overworked.

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INDEX (cont.)

Kearsley, C. & G., Ltd. viii
Keen, Robinson & Co., Ltd. xxxii
Kellys, J., (London), Ltd. ... ii
Knox, John (Stoke-on-Trent), Ltd. xxx
Koray, Ltd. xxvii

Lantigen, Ltd. xxx
Lastonet Products viii
Leda Chemicals, Ltd. xiv
London Commercial Electric Stores viii

Macleans, Ltd. 2
Marsh Brooks, Ltd. 24
Mather, Wm., Ltd. xix
Matthews, S., & Co., Ltd. ... 8
Maxilin Marketing Co. xxx
May & Baker, Ltd. 19
Menley & James, Ltd. 5
Midgley & Parkinson, Ltd. ... 24
Momand, Don S., Ltd. xxv

National Savings xii
New Era Treatment Co., Ltd. 1

Organon Laboratories, Ltd.... 25
Orridge & Co. .....Col. Supp.
Oxo, Ltd. xxxi

Parke, Davis & Co. .....Cover ii
Pears, A. & F., Ltd. 34
Percenta, Ltd. 22
Pharmaceutical Laboratories, (Geigy), Ltd. vii
Phillips, Chas. H., Chemical Co., Ltd 27
Picker, Myram, Ltd. 21
Potter & Clarke, Ltd. 17

Rankin Bros. & Sons Leader Page
Ransom, Wm., & Son, Ltd. 18
Reliance Building Co. xxii
Reliance Rubber Co., Ltd. ... vi
Rendell, W. J., Ltd. xvii
Rentokil, Ltd. xiv
Reuter, R. J., Co., Ltd. ... 30
Revai, A., & Co., Ltd. ii
Riddell Products, Ltd. xxviii
Rimmel 28, 29
Roche Products, Ltd. 11
Ronaldson, J., & Co., Ltd. ... ii

Scruton, Oscar, & Co., Ltd. xxxiv
Selka, Ltd. vi
Sellotape xi
Shaw Publishing Co. xxvi
Sidnick, M., & Co., Ltd. ...xxxii
Silvikrin xxi
Singer, Ernest M. iv
Smith, J. M., & Co. (London), Ltd. xxvi
Smith, T. & H., Ltd. iii
Sorelle, Jean, Ltd. 34
Southon Laboratories, Ltd. ... 15
Sozol (1924), Ltd. xiii
Splendor, Ltd. xx
Spratts Patents, Ltd. xx
Steele, F. H., & Co., Ltd. ... x
Stower & Oakley, Ltd. x

Tampax, Ltd. v
Teasdale Chlorodyne Co. ...
Teasdale & Co., Ltd. x
Thermos (1925), Ltd. .....
Thornton & Ross, Ltd. .....

United Chemists Association, Ltd. .....

Virdox xxv
Vitamins, Ltd. .....

Waide, Thos., & Sons, Ltd.
Wander, A., Ltd. .....
Ward, Blenkinsop & Co., Ltd.
Watford Chemical Co., Ltd.
Wesley, Harold, Ltd. .....
Westbrook Lanoline Co., ...
Westminster Laboratories, Ltd.
Whiffen & Sons, Ltd. .....
Whitakers (Kendal), Ltd. ...
Wilcox, Jozeau & Co., Ltd. Leader P.
Wirebands, Ltd. .....
Wright, Layman & Umney, Ltd. .....Front Co
Wylies Cleansers, Ltd. .....

Zems, Ltd. x

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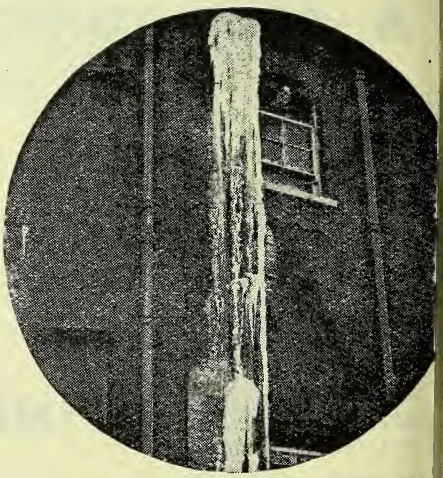

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(VITAMINS A, B_1, B_2 and D_2)

MULTIVITE
(VITAMINS A, B_1, C and D_2)

THE BRITISH DRUG HOUSES LTD. LONDON N.1

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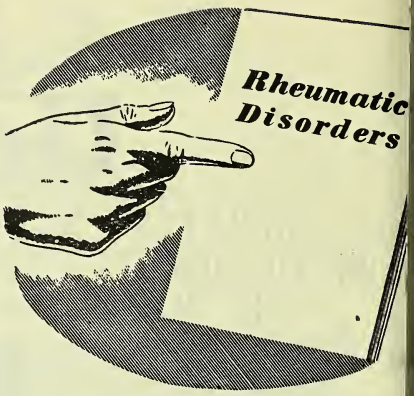

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Now you can supply small or large Alasil Tablets to meet all demands

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Handy pocket-size Carton containing 6 small size Alasil Tablets hygienically sealed in cellophane

IN response to many requests from those who prefer a small tablet, we have now introduced a smaller-size 'Alasil' Tablet, whilst retaining the large-size Tablet which has proved such a widespread success for its quick and effective relief of pain.

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In 'Alasil' the combination of acetylsalicylic acid with 'Alocol' (Colloidal Aluminium Hydroxide), an effective gastric sedative and antacid, helps to obviate any tendency to gastric irritation. The advantages of 'Alasil' are therefore obvious.

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RETAIL PRICES: *(Including Purchase Tax)*
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Less 5% Cash in 14 days

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Yestamin DAILY YEAST

THE ENGLISH GRAINS CO. LTD. BURTON-ON-TRENT

Introducing

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TABLETS

QUININE & VITAMIN C

FOR PROPHYLAXIS AND TREATMENT OF THE COMMON COLD AND OTHER UPPER RESPIRATORY INFECTIONS

Quinine possesses in addition to antipyretic properties a central analgesic action which blunts the pain in muscles and joints associated with influenzal infection. "It is important to ensure a reasonable daily intake of not less than about 50 mg. of vitamin C . . . and that it may be well to ensure saturation in all feverish patients."
Lancet 1944, *ii*, 118.

Each sugar-coated tablet contains 30 *mg.* (600 *int. units) of ascorbic acid, and* 30 *mg.* (*gr.* ½) *of quinine sulphate.*
Issued in bottles of 50 *and* 500

Further information on request.

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firm favourites!

with every member of the family . . . .

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(MEDICINAL AND TOILET)

SOAP · OINTMENT

TALCUM POWDER · SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

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SHAVING CREAM · LIQUID ANTISEPTIC

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THERMOS (1925

SEYMOUR ROAD · E·10

TELEGRAPHIC ADDRESS: "THERMOS," LEYSTON LONDON.

CABLES: THERMOS, LONDON

TELEPHONE: LEYTONSTONE 4061-4

JAAW/TL.

4th December, 1948

To the Trade.

Withdrawal of the Official Government Permit Scheme.

Gentlemen,

With the concurrence of the Ministries concerned the Board of Trade have agreed that the issue of permits for the purchase of "THERMOS" Brand Vacuum Flasks shall cease from the 31st December, 1948. Until then Ministries will continue to issue permits.

The December bulk issue of permits to the Ministries has been overprinted to the effect that the permit is valid until 28th February, 1949.

Thus the scheme continues as before until the 28th February next. After that date no permits will be accepted.

One condition of the withdrawal of the scheme has been that distribution of flasks will continue to the same districts and through the same channels as against permits. This is necessary to avoid a return of the scheme.

The President of the Board of Trade has conveyed his Department's thanks to the Company for their work in administering the scheme, it being recognised that this has been a valuable contribution to the welfare of essential workers and invalids.

Many of our trade friends will be hoping that the withdrawal of the permit scheme will result in greater quantities of "THERMOS" Brand Vacuum Flasks being available. We wish this could be so. Unfortunately the withdrawal of the scheme alone will not give us additional production, but it is hoped that as the New Year develops we shall begin to feel the benefit from the new factory extension into which we are in process of moving.

We shall do our best to improve deliveries to the home trade and, at the same time, to keep up our very heavy export quotas which are such a valuable contribution to the Nation's earning capacity.

Yours faithfully,
THERMOS (1925) LIMITED,

Sales Manager.

Protection against colds?

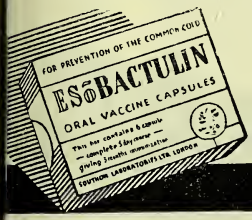
" . . . . . ESOBACTULIN is one of the most successful lines I've handled. The course consisting of six capsules taken over five days gives most people three months' immunity from colds.

Customers come in for a course at this time of the year and again in 3 months' time just when their resistance is lowest and colds are most prevalent."

8/3 per course inc. P. Tax 33⅓% Trade discount

Supplied through YOUR Wholesaler

Bonus Offer—*13 to the dozen on orders of 1 dozen and over.*



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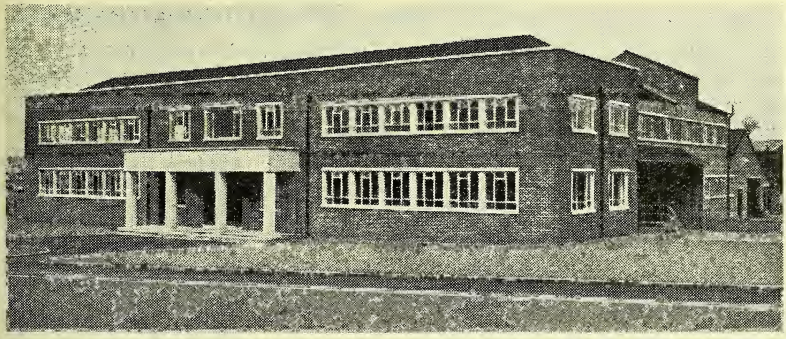
SOUTHON LABORATORIES LIMITED
UPPER RICHMOND ROAD, LONDON, S.W.15

ESOBACTULIN

protection against colds

NEW PREMISES



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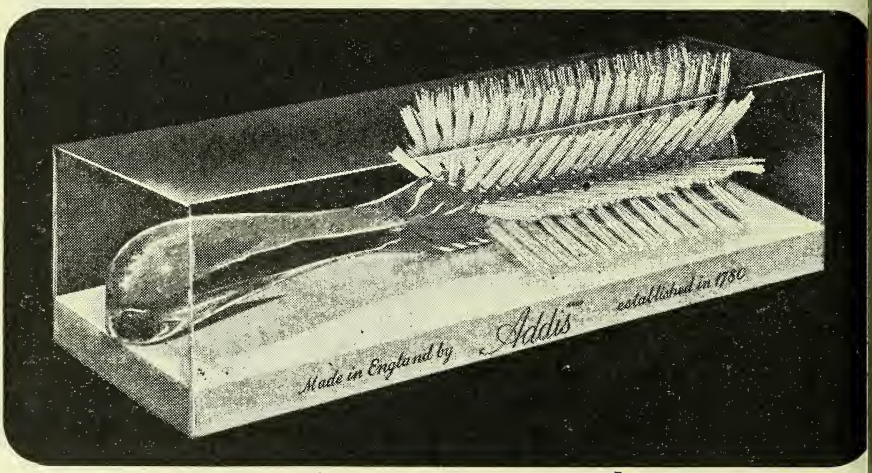

"It must have been designed by a woman"

SAY ENTHUSIASTIC USERS

HERE, at last, is a hairbrush *specially designed to beautify women's hair.* No wonder the new Addis Beauty Brush is selling so fast that production, already doubled, is being still further increased!

As thousands of women have already discovered, the Beauty Brush *brushes deeper than any hairbrush yet invented,* makes even 'difficult' hair look noticeably prettier.

This lovely new brush has a clear gem-like plastic handle in a choice of three colours—pink, green or blue. And remember—the Addis Beauty Brush is a line that will *keep selling the whole year round* on its sheer sound value for money. Retail price 12/6d. (incl. tax); price to you 82/6 per dozen plus purchase tax

This handsome three-brush display piece is supplied free with every order for six Addis Beauty Brushes.

THE NEW

Addis REGD. BEAUTY BRUSH

Designed—Packed—Priced to SELL!

ADDIS BEAUTY BRUSHES ARE MADE ONLY BY ADDIS LTD. OF HERTFORD, ESTABLISHED 1780

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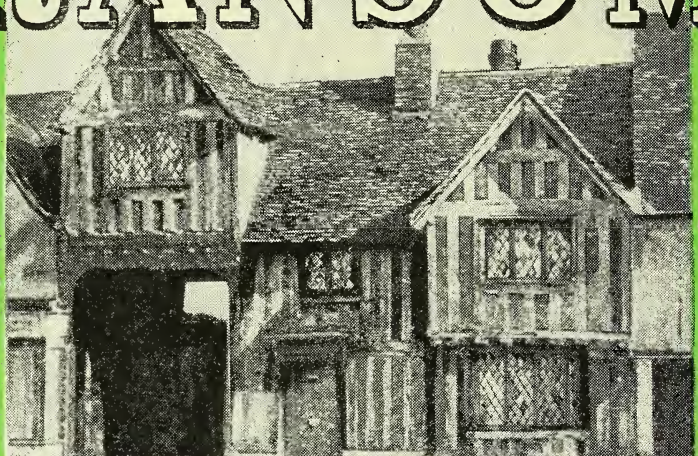
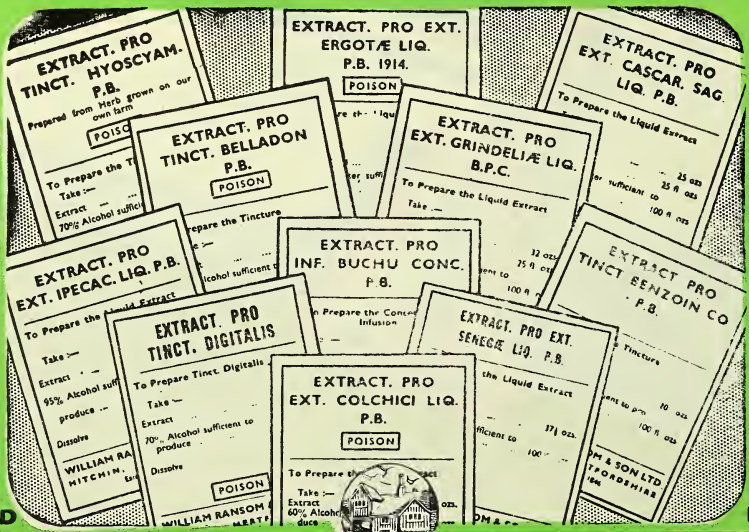
Potter & Clarke Ltd.
DRUG MERCHANTS & MANUFACTURING CHEMISTS
London & Manchester

RANSOM



14th Century Gate-house to Ransom's Factory

Drug growing for over 100 years



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COCAINE ALKALOID B.P.
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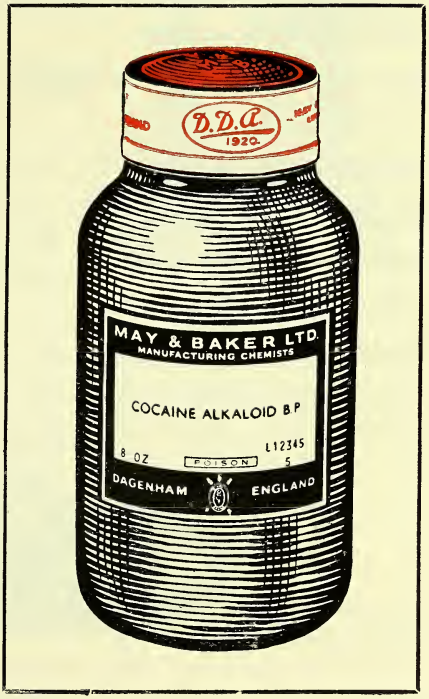

MAY & BAKER LTD
DAGENHAM

'phone: ILFord 3060, Ex. 72

BS and the B.P.

The following list indicates the Products of British Schering Ltd. whic conform with the requirements of the British Pharmacopoeia 1948. When th official substance is prescribed you may dispense these products with co fidence. Our method of labelling and colouring of some tablets for recognitio purposes has not been modified.

B.P. PREPARATION	"B.S." PRODUCT
Barbitone Sodium	**'Medinal' Powder**
Cinchophen	**'Atophan'**
Injection of Deoxycortone Acetate	**'Cortiron'**
Injection of Iodoxyl	**'Uroselectan B'**
Injection of Oestradiol Monobenzoate	**'Progynon B Oleosum'**
Injection of Progesterone	**'Proluton'**
Injection of Testosterone Propionate	**'Testoviron'**
Sulphacetamide	**'Albucid'**
Sulphacetamide Sodium	**'Albucid' Soluble**
Tablets of Ethisterone	**'Oraluton'**
Tablets of Barbitone Sodium	**'Medinal' Tablets**
Tablets of Methyltestosterone	**'Oraviron'**
Tablets of Oestrone	**'Progynon' Tablets**

Our Price List and any further information required may be obtained on reques

British Schering
LIMITED

167/169 GREAT PORTLAND STREET, LONDON, W.

GALA OF LONDON *PRESENTS*

lip line

PAT. PEND.

Slim, graceful, long, Lip Line is sensationally attractive in its beautifully made gold metal case. A transparent tip — protects each Lip Line colour when not in use.

he latest, newest
pstick technique

th interchangeable colours in the
me shades as Gala lipsticks

a pencil, not a brush, but the slimmest lipstick ever be made. Giving the steadiest, deftest control in lication, and the marvellous new idea of interchange- colours!

ck-change refills — one for every dress colour

Lip Line refill is contained in its own gold metal shell. A an can lift out one shell of colour at any time and slip in an- r. No soiling of the fingers, as she never touches the colour f. So with every Lip Line case you can sell several Lip Line ls. 'One for every dress colour'! This means *extra* sales for you.

PRICES	TRADE PRICE (*without Pur. Tax*)	RETAIL PRICE (*with Tax*)
LINE (*Each shade complete in case*)	36/- *per doz.*	7/6 *each*
LINE REFILLS (*ch shade in its own metal shell*) -	16/6 *per doz.*	3/5 *each*
IP LINE WARDROBE (*se and 4 Refills in plastic tray*) -	85/- *per doz.*	17/9 *each*
IP LINE PALETTE (*se and 12 Refills in super gift box*)	216/- *per doz.*	45/- *each*

STOP PRESS

Deliveries unfortunately cannot keep pace with demand—for this we apologise; but we are making every effort to speed supplies to you.

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Burlington Arcade, Piccadilly, London, W.1

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C

CARTONS
AND
DISPLAY CONTAINERS

A good product should have a well-designed pack. Our studio is at your service.

BOXFOLDIA LTD.
CARTON MANUFACTURERS
BOURNBROOK, BIRMINGHAM

Du·cil REGD.
Sanitary Towels

FOR PERFECTION
IN
LADIES' HYGIENE

Bought confidently

S.E.R. BRIERLEY LTD.
BLACKBURN

«WB»

MEDICAL PRODUCTS

recently introduced

ADAPRIN Tablets

for treatment and prevention of CHILBLAINS

Each tablet contains Acetomenaphthone 10mgm. and Nicotinamide 50mgm.

Containers of 100 ... ... 9/- each

DEXTRO-AMPHETAMINE SULPHATE 5mgm. tablets.

Containers of 100 ... ... 5/- each
Containers of 500 ... ... 23/- each
Containers of 1,000 ... ... 45/- each

ROBADEN

for the treatment of DUODENAL AND GASTRIC ULCERS

Extracts from the stomach and small intestine of animals.

Tubes of 30 tablets ... ... 11/3 each
Boxes of 6 x 1c.c. amps. for duodenal ulcer 10/6 each
Boxes of 6 x 1c.c. amps. for gastric ulcer... 10/6 each

(Purchase Tax Extra)

The above prices are retail and are subject to the usual discounts.

Detailed literature available on request.

WARD, BLENKINSOP & CO. LTD

6 HENRIETTA PLACE, LONDON, W.1

Telephone: Langham 3185 Telegrams: Duochem, Wesdo, London

THE *Modern* ANTACID..

Magtriz Tablets are an effective combination of Magnesium Trisilicate and Magnesium Hydroxide and provide prompt relief and prolonged control in all cases of Hyperchlorhydria as recommended by the Medical Profession.

MAGTRIZ
DIGESTIVE TABLETS

2 sizes, 7½d. and 1/6d.
Trade 4/- and 10/- per doz. plus P.T.
Both sizes packed in attractive outers.
Small size 2 dozen. Large size 1 dozen.

PATA

WESTMINSTER LABORATORIES LTD., Chalcot Road, London, N.W.1 Tel.: PRImrose 3395/6/7

GROUND
DRIED YEAST
MIDGLEY & PARKINSON, LTD.
WARREN WORKS, PUDSEY, LEEDS

COMPRESSED TABLETS
Special quotations for large quantities. Priv formulæ compounded. Aspirins, Digestive Mi Iodised Throat Tablets, etc., at keen prices—b or packed.
MARSH BROOKS, LTD., 170 Bridgeman St., Bol

MILLAMALT

Malt Extract with added Natural Vitami

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD (A 6500 I.U., D 400 I.U. PER FL. OZ.)
Leyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N

JENNER INSTITUTE GLYCERINATED VACCINE LYMPH

PREPARED IN ACCORDANCE WITH THE THERAPEUTIC SUBSTANCES REGULATIONS (BRITISH PRODUCT)

SINGLE VACCINATION TUBES - - 10d. each ; 9s. dozen. Postage extra
LARGE TUBES (EXPORT only) sufficient for five vaccinations - - 1s. 6d. each ; 15s. dozen

JENNER INSTITUTE FOR CALF LYMPH LTD
77 BATTERSEA CHURCH ROAD, S.W.11
Telephone : Battersea 1347 *Telegrams* : "Jenvacter, Phone, London" (2 words)

Introducing

'LYNORAL'

ETHINYL ŒSTRADIOL

The most remarkable oestrogen known—

FOR ORAL ADMINISTRATION

DERIVED FROM THE NATURAL OESTROGEN

EXTREME POTENCY MEANS MINUTE DOSAGE

WITHOUT SIDE EFFECTS

AT LOW TREATMENT COST

For all conditions where oral Œstrogen therapy is indicated

Scored tablets of 0.05 mg. • Tubes of 25 • Bottles of 100

Stocks are immediately available from all wholesalers or direct

ORGANON LABORATORIES LTD.

BRETTENHAM HOUSE, LONDON, W.C.2

TELEPHONES: TEMPLE BAR 6785/6/7 0251/2

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REGULAR DELIVERIES ASSURED

ESTAX EMULSIFIERS

A WIDE RANGE (NOS. 1 TO 40) OF POLY-ALCOHOL FATTY ACID ESTERS. TYPICAL SELECTION AND USES :
NO. 1 (PENTAERYTHRITOL MONO STEARATE) FOR SHAVING CREAMS, VANISHING CREAMS, WATER-SOLUBLE OINTMENTS.
NO. 6 (DI GLYCOL MONO STEARATE) FOR COSMETIC CREAMS, TABLET COATINGS, ETC.
NO. 21H (PROPYLENE GLYCOL MONO LAURATE) FOR PLASTICISERS, OINTMENTS, LIPSTICKS, SKIN CREAMS, ETC.
NO. 22H (PROPYLENE GLYCOL MONO PALMITO-STEARATE) REPLACES COCOA BUTTER; FOR PESSARIES, COATING COMPOUNDS.
NO. 32 (PENTAERYTHRITOL DI PALMITO-STEARATE) FOR ALL PHARMACEUTICAL USES, OINTMENTS, EMULSIONS. ALTERNATIVE FOR LECITHIN.

PROMULSIN POWDER

CELLULOSE DERIVATIVE (POLY-GALACTO-XYLOSE) GELLING AND THICKENING AGENT. TASTELESS, ODOURLESS AND EDIBLE.

AMMONIUM THIOGLYCOLLATE SOLUTION

ALL CONCENTRATES, FOR COLD PERMANENT WAVING COMPOUNDS.

SOLVENTS AND DISPERSANTS RANGE

FOR A WIDE RANGE OF PHARMACEUTICALS, ESPECIALLY THOSE TAKEN INTERNALLY; DISSOLVING IN IODINE, BROMINE, CHLORINE, SODIUM AND POTASSIUM CHLORIDES, ETC. ALSO FOR IMPROVING SKIN CREAMS AND OTHER TOILET PREPARATIONS.

FINE CHEMICALS

WRITE FOR COMPLETE LIST JUST PUBLISHED.

Prices and samples on application.

WATFORD CHEMICAL CO · LTD

30 BAKER STREET, LONDON, W.1. Tel: WELBECK 0264-8

The richest natural *vitamin - protein - mineral* supplement Bemax

The nutritional factors of Bemax are well demonstrated in the table of assay figures shown below—

VITAMINS (per oz.)

B_1	0.45 mg.	nicotinic acid	1.7 mg
B_2 (riboflavine)	0.3 mg.	B_6	0.45 mg
		E	8.0 mg.

PROTEIN, MINERALS, etc.

protein (first-class—see*)	30%	mineral salts	4.5%
carbohydrate	39%	water	5%
fat	8.5%	fibre	2%

*** ESSENTIAL AMINO ACIDS**

	fresh weight basis	16% N basis
arginine	2.5%	8.3%
histidine	0.9%	3.0%
lysine	1.8%	6.0%
tryptophane	0.3%	1.0%
phenylalanine	0.9%	3.0%
cystine	0.3%	1.0%
methionine	0.5%	1.6%
threonine	1.2%	4.0%
leucine	2.1%	7.0%
isoleucine	1.3%	4.3%
valine	1.6%	5.3%

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Vitamins Limited

Upper Mall, London, W.6.

Now in Better Supply!

Pharmacists will welcome the information that a marked improvement in production now permits the removal of restrictions on supplies. Orders may now be placed without limitation on quantity, thus enabling chemists to meet the continually increasing demand for this popular antacid.

'Milk of Magnesia'

Regd.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179, ACTON VALE, LONDON, W.3.

Introducing two NEW

GENUINE French Perfumes

● Specially for Christmas, Rimmel have introduced two really exceptional cosmetic lines — and remember if a product is exceptional it sells.

● Your women customers will buy this sophisticated genuine French perfume because : Its price is competitive, the bottles are French and attractive.

● Retail prices :

Decanter bottles 10s. each.

R-bottles 3s. 6d. each.

Vocalise and Ghislaine dipper bottles 6s. 6d. each.

● It pays to stock—

Rimmel

48 NORTH ROW · PARK LANE · W.

wonderful COSMETIC LINES

● For the first time a Lip-Fashion Pencil is available for the home market.

● It is new : it will be fashionable : and it will be your best seller.

● 10 glorious shades.

Retail price 7s. 6d.

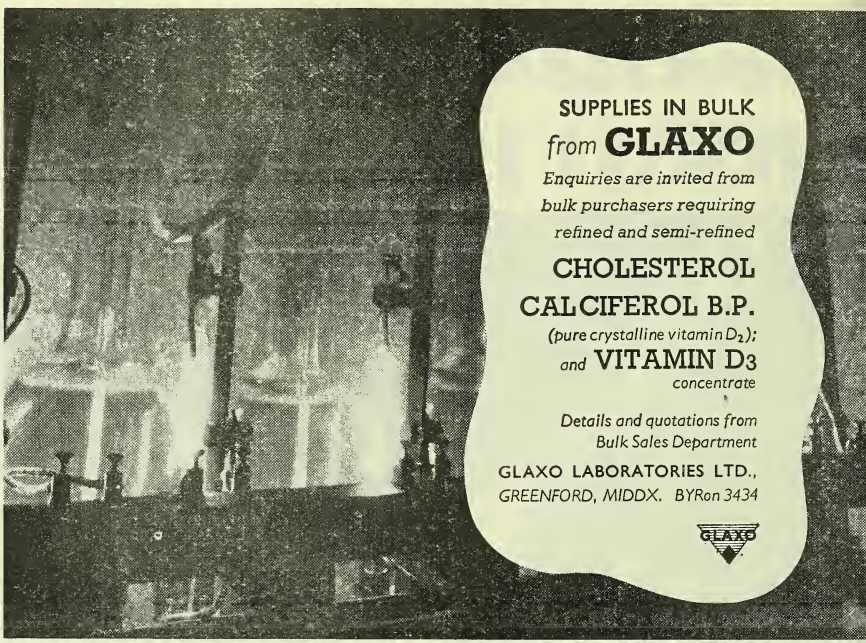
Refill price 4s. 1d.

● Don't miss these golden opportunities. Supplies are limited and orders will be met in strict rotation.

● It pays to stock—

Rimmel

48 NORTH ROW · PARK LANE · W.1


SUPPLIES IN BULK
from GLAXO
Enquiries are invited from
bulk purchasers requiring
refined and semi-refined
CHOLESTEROL
CALCIFEROL B.P.
(pure crystalline vitamin D_2);
and VITAMIN D3
concentrate
Details and quotations from
Bulk Sales Department
GLAXO LABORATORIES LTD.,
GREENFORD, MIDDX. BYRon 3434

No. 4711.

Eau de Colognes and Beauty Aids

MADE IN ENGLAND

all you want—NOW!

R. J. REUTER COMPANY LTD.
SLOUGH

P.A.T.A

POLAWAX

A NEW OIL-IN-WATER EMULSIFYING WAX

A stearyl alcohol of enhanced polar properties containing no anionic auxiliary emulsifier of the soap or sulphonated/sulphated fatty alcohol type. Stable to high temperatures itself, its emulsions do not alter in pH value on autoclaving.

CRODA LIMITED
CRODA HOUSE, SNAITH, GOOLE, YORKS.
London Office : **24 HAYMARKET, S.W.1**

P.A.T.A

Licoricine
ACTS LIKE MAGIC
FOR COUGHS & COLDS
EXTENSIVELY ADVERTISED

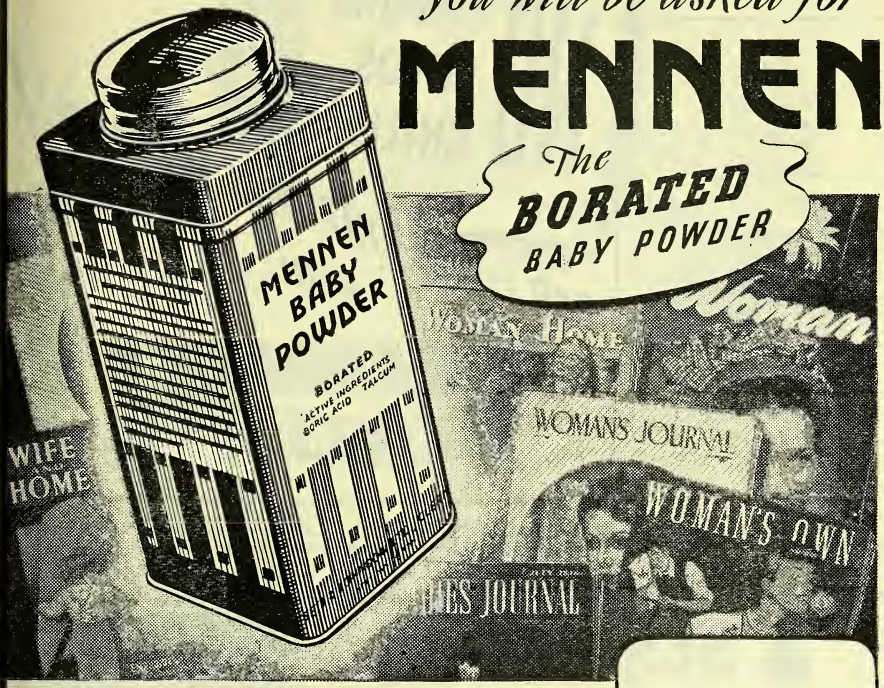
HALL FORSTER & CO. LTD.,
NEWCASTLE UPON TYNE

From now on—

you will be asked for

MENNEN

The **BORATED** BABY POWDER



The famous 'Mennen' Baby Powder is back. Made to the 'borated' American formula by Fassett & Johnson, Ltd. 'Cloud spun,' and containing Boracic Acid and Ultra-fine talcum, 'Mennen' is "Baby-Powder with a REASON."

From now on 'Mennen' advertising will appear in the principal Women's Magazines with Nursery interest.

TRADE TERMS & DISCOUNTS:—

Price to Public	- - -	1/5 each inc. of Purchase Tax
Price to Trade	- - -	9/6 per dozen
	Purchase Tax	3/2 per dozen

5% quantity discount on 3 dozen. Carriage Paid.

Made in England for the MENNEN COMPANY *by*

FASSETT & JOHNSON LTD

CLERKENWELL ROAD, LONDON, E.C.1

NATIONALLY ADVERTISED TO MILLIONS OF MOTHERS IN:—

HOUSEWIFE

MOTHER

WOMAN'S JOURNAL

WELDONS LADIES' JOURNAL

NURSERY WORLD

MOTHER & HOME

WOMAN & HOME

WIFE & HOME

WOMAN'S OWN

WOMAN

CVS-14

The Family Cough Specific with a Country wide Sale!

Supplies available through your usual wholesaler.

NO COUGHS COLDS CHILLS

KEEP THEM OUT THIS WINTER!

WITH

Retail at 1/9 AND 3/11 including Purchase Tax

TEASDALE'S BRAND CHLORODYNE

Manufactured by:

The Teasdale Chlorodyne Co., Huddersfield

51

Stops SCURF

Dr. Pagr-Barker's

Scurf & Dandruff Lotion

A Guarantee with every Bottle.

Distributors to the Chemists' Trade—

THOS. CHRISTY & CO. LTD.

FARNHAM, SURREY.

Trade 20/- doz.

Plus Tax ONE THIRD

Retail 3/4 P.A.T.A.

★ *Ask for Showcard*

Sole Manufacturers and Proprietors—

ILEX SUPPLY CO., LTD. 252b GRAY'S INN ROAD, W.C.1

Skin Deep

national advertisements

dare to tell a new beauty story . . .
of beauty that dares to come closer

Now that we are in a buyer's market again, a pretty picture is not enough to make a woman buy a skin-food or cosmetic. She needs to be told how a product can make her more lovely. SKIN DEEP answers her need with *a daring new beauty story*—"CLOSE-UP" loveliness. By using SKIN DEEP as her foundation cream, outward loveliness is ensured while inwardly its nourishing ingredients penetrate deep into the skin, keeping it young and supple. Thus her complexion becomes clear, fresh and beautiful under the make-up. Instead of anxiety that 'closeness' will reveal blemishes, she can be superbly confident of being even lovelier *closer*. And so good is SKIN DEEP it ought always to be smoothed in before sleep at night. The new national advertisements for SKIN DEEP are sure to win the allegiance of many thousands of women and you, for your part, should give SKIN DEEP a noticeable display.

Skin Deep

the cream for 'Close-up' beauty

ATKINSONS, 24 OLD BOND STREET, W.1 AST.5-1042

Tremendous Success

NO WONDER ORDERS LIKE THIS POUR IN . . .

* "4 gross of Gloria gone in 2 weeks. Send 8 gross more please"

"Urgent—send 6 dozen Gloria"

"Exceptional sales. 4 dozen more Gloria please"

"Please 12 dozen more Gloria immediately"

* *All these statements are true quotations from actual orders coming in by the hundreds!*

Gloria

LIQUID

Shampoo

containing OLESTOL

Washes hair shimmering clean without making it harsh and dry!

It's by Pears

. . . IT'S NEW

. . . IT'S DIFFERENT

A. & F. PEARS LTD., ISLEWORTH, MIDDX. PGT 2/923/80

A NEW TALC

with the accent on fineness

IN Jean Sorelle Talc Poudre de Luxe you have a powder of incredible fineness, made from really superior ingredients and delicately perfumed.

Packed in a most attractive cream, black and gold container Jean Sorelle de Luxe Talc Powder has a splendid future as a toilet preparation that will sell on appearance and utility.

Enquiries invited

Made by:

JEAN SORELLE LTD

22 TURLE ROAD, LONDON, N.

Keep 'KEPLER' to the fore

Now, with a Nation-wide advertising campaign under way in newspapers, periodicals and magazines, the demand for 'KEPLER' is increasing every day. More and more of your customers are getting to know that 'KEPLER' protects and fortifies. Are you well-stocked to meet a big demand this winter?

Keep your customers 'KEPLER' conscious by an attractive window display. A well-dressed window, featuring Crowner Cards and other display material designed especially for you, means bigger sales and bigger profits.

'KEPLER' BRAND
COD LIVER OIL WITH MALT EXTRACT

MORE GOODNESS TO THE SPOONFUL

BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) **LONDON**

Vasoconstrictor

PRIVINE

Registered Trade Mark

It is not related chemically to either adrenaline or ephedrine. Its effects are rapid in onset and prolonged. It has a low toxicity, is non-irritant and very small amounts only are required to produce relief in

NASAL CONGESTION

1 : 2000 Solution ½ fl. oz. 3/6 with dropper

1 : 2000 Solution 4 fl. oz. 20/-

1 : 1000 Solution ½ fl. oz. 4/3 with dropper

1 : 1000 Solution 4 fl. oz. 24/-

Retail Discount 33⅓%

(exempt from purchase tax)

CIBA

CIBA LABORATORIES LIMITED · HORSHAM · SUSSEX

Telephone : Horsham 1234. Telegrams : Cibalabs, Horsham

5/48

The

CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

DECEMBER 4, 1948

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

le copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

No. 3589 Volume CL

CONTENTS

Alginates in Surgery 741
Business Changes 722
Coming Events 748
Company News 722
Correspondence 743
Deaths 724
Drugs in Ophthalmology 729
Editorial Articles :—
Down to Earth 733
Pest Control Hazards 734
Recent Trade Decontrols 734
Maternity and Welfare Progress 735
What is Curry Powder ? 735
Employee Pharmacists' Discussion ... 742
Fifty Years Ago 727
Irish News 719
Legal Reports 722
Local News 718
Overseas News 720
P. A. T. A. 727
Penicillin Preparations of 1948, B.P. 736
Personalities 724
Pharmaceutical Committee Representatives 731
Pharmaceutical Society of Northern Ireland 731
Recent Scientific Discovery... ... 728
The Late Mr. R. Murdin Drake ... 725
The Week in Parliament 723
Topical Reflections 721
Trade Marks 748
Trade Notes 726
Trade Report 744
Ulster Chemists' Association ... 740

NEWS OF THE WEEK

rading with Siam.—Siam is no longer rded as enemy territory as defined in Trading with the Enemy Act and ers. A new Order (S.I. 1948, No. 2484) ing the change came into force on ember 15.

Decontrol of Industrial Alcohol.—The rd of Trade has made an Order (S.I. 8, No. 2572) releasing from control m January 1, 1949) methylated spirit, one, butyl acetate, ethyl acetate, amyl hol, fusel oil and paraformaldehyde.

afety Conference for 1949. — The ociation of British Chemical Manufacrs is arranging a second conference on dent prevention in chemical works to held in Scarborough in October 1949 first was held recently in Harrogate, *C. & D.*, November 6, p. 590).

.B.I. Report on Productivity. — The ort of a committee set up by the Fedion of British Industries in September dvise on improvements in productivity owledges that the productive effiicy of many firms could be substantially increased without new capital or new equipment and despite restrictions. The report is not yet finally adopted.

Extra Petrol for Some.—The Ministry of Transport announces that, from May 1, 1949, owners of vehicles licensed for private as well as goods purposes (drawing "X" coupons from the Regional Transport Commissioners) are to be granted the standard allowance (sufficient for ninety miles' private motoring a month) in addition to allowances granted for business purposes. Not more than one suitable vehicle may be used by each operator for private purposes. Requests should be made with the first petrol application covering any period from May 1, 1949, onwards.

More Paper for Circulars.—The maximum amount of paper permitted to be used for advertising circulars for free distribution in the United Kingdom has been increased to 2 cwt. in any period of three consecutive months or, if larger, a quantity equal to 20 per cent. of the aggregate quantity by weight of such circulars distributed in the corresponding period in the

twelve months ended August 31, 1939. The increase is effected by the Control of Paper (Economy) (Amendment) Order, 1948 (S.I., 1948, No. 2540), and came into operation on December 1.

Standard for Curry Powder. — The Food Standards Committee has recommended to the Minister of Food that a standard of composition and a limit for lead contamination should be prescribed for curry powder. The Committee recommends (a) that curry powder should contain at least 85 per cent. of spices, aromatic seeds and aromatic herbs, and that limits for the other ingredients (e.g., farinaceous material and salt) need not be specified in the standard; (b) that on the evidence before the Committee a tolerance of 10 parts per million of lead in curry powder might be permitted, but that this should be subject to review with the object of lowering it when possible. (Editorial comment, p. 735).

Grants for Overseas Delegates. — A fund administered by the British Council enables overseas delegates to attend national or international scientific conferences held in the United Kingdom. Grants cover subsistence in the United Kingdom for the duration of the conference up to a period of two weeks (fares to and from the United Kingdom are paid only in exceptional circumstances), and are made only to delegates who could not otherwise attend. Conveners of conferences to be held during the period April 1, 1949-March 31, 1950, are invited to apply to the Director, Visitors' Department, British Council, 3 Hanover Street, London, W.1.

World Bureau of Medical Supplies.—The World Health Organisation is to establish a Bureau of medical supplies to advise governments on the purchase of essential drugs, biological products, medical equipment, etc. In emergencies the Bureau would obtain necessary supplies in its own right for areas needing them. At a recent meeting of the Executive Board of the WHO it was decided that the Organisation should take measures to ensure the wider availability of penicillin, and a survey of penicillin plants supplied by UNRRA to several countries is to be undertaken. The Board approved a recommendation that co-operation with the U.N. Economic Commission for Europe and the Economic Commission for Asia and the Far East could play a vital role in making reciprocal trade agreements for increasing penicillin supplies.

LOCAL NEWS

Lecture to Chelsea Students.—Mr. Beaven, A.R.I.C., Ph.C., spoke "Modern Conceptions of Drug Action (see *C. & D.*, November 20, p. 673) the Chelsea Polytechnic Pharmacy St dents' Association on November 25. I K. R. Capper was in the chair.

Talk by Eastbourne M.O.H.—The wo of a modern public health department w described at a recent meeting of the Ea bourne Branch of the Pharmaceutical S ciety by Dr. John Fenton (medical offic of health for Eastbourne), who dealt wi water and milk supplies, housing, clini diphtheria immunisation, and the scho medical service.

S.E. London Film Show. — At a fi show given before the South-east Met politan Branch of the Pharmaceutical S ciety by John Wyeth & Bro., Ltd., November 23, the main item was American colour film, "Peptic Ulcer." T show was followed by a discussion on re lutions for the next Branch Representativ meeting. Mr. P. G. Flood was in the cha

Opticians' Dinner.—The National As ciation of Opticians held its first post-w annual dinner and dance at Manchester November 10. Members and guests fr many parts of Great Britain were receiv by Mr. T. J. Vernon Parry (president) a Mrs. Parry, Mr. J. F. McNeal (secreta and Mrs. McNeal, and by Mrs. Moret Parry and Miss D. Parry. During t evening an illuminated album and cheque, proceeds of a testimonial fund or inally intended for the late Mr. L. Mo ton Parry, were presented to Mrs. Moret Parry.

Walthamstow "Members' Night." Short talks by members were given at meeting of the Walthamstow Pharmaceu cal Association on November 16, Mr. W. Hill (vice-chairman) presiding. Mr. T. James recalled some humorous expe ences from his professional career, a went on to describe an imaginary gad that delivered medicaments into contain by the touch of a key. A talk on who sale buying was given by Mr. J. J. Tyrr (Allen & Hanburys, Ltd.) who describ some of the problems involved in obtaini in large quantities not only drugs but r materials for making all kinds of packag steel for the manufacture of surgical struments and animals for use in the ph macological laboratories. Mr. L. H. Mc pett explained how he had converted sh

mises into a modern "ethical" pharcy. His "display" windows now conied little but two 6-gall. carboys, and was well satisfied with the result.

'resident Visits Inverness.—The presit of the Pharmaceutical Society (Mr. Clement Shaw), accompanied by Dr. vid McCall (resident secretary in Scotd), addressed a meeting of the Inverness North of Scotland Branch of the iety at Inverness on November 16. e audience included members from Fort liam, Brora, Dingwall and Beauly. Mr. w, who was introduced by the chairn (Mr. T. Mackenzie), surveyed the blems before the Society's Council, ling specially with the new examination ulations, revision of the syllabuses, and disposal of the Society's Brunswick are building. He stressed the imporce of Birdsgrove House and the Benevo- Fund, and said the man-power problem pharmacy needed closer investigation. McCall outlined the organisation and em of representation of Scottish chemist tractors under the National Health Ser- and answered many questions. A vote hanks to the speakers was proposed by J. C. Michie, Nairn.

Iospitals and N.H.S.—At a meeting of Liverpool Chemists' Association and nch of the Pharmaceutical Society, on ember 4, Dr. T. Lloyd Hughes (senior lical officer, Liverpool Regional Hosl Board), described the constitution, adistration and functions of the Board. H. Humphreys Jones presided. Dr. yd Hughes said the introduction of the ional Health Service had been inevit- in the modern trend of social developts. Strictly speaking, the N.H.S. Act a medical services Act and, in the ion of many people, did not place sufnt importance on the preventive aspect medicine. Mr. J. L. Hirst said the rpool Executive Council of the ional Health Service had approved estes for the year 1949-50, including 0,000 for pharmaceutical services. Reing to the concord that had existed ben the medical profession and pharma- for the last thirty-five years he said the t services subcommittee, set up to ad- differences between practitioners and rmacists, had met only once. Mr. W. Tristram said that Messrs. J. L. Hirst, L. Clubb and himself were all members hospital management committees, and Humphreys Jones was a governor of a hing hospital.

IRISH NEWS

Eire Chemists' "Retreat." — About thirty members of the Pharmacy Branch of the St. Joseph's Young Priests' Society took part in a week-end retreat held in Dublin recently.

Proprietaries and Appliances under N.H.S.—A further statement on the prescribing of proprietary medicines and appliances under the Health Service's Act was made by the Minister of Health and Local Government in answer to a question in the Northern Ireland Parliament on November 23. He said that only appliances that had been prescribed by regulations could be ordered by a doctor under the Service. The list, while containing a sufficient range for general medical purposes, did not include articles under their proprietary names. Doctors, when ordering appliances, should use the description appearing in the prescribed list. For drugs there was no prescribed list, and a doctor might order any drug or medicine requisite for the treatment of a patient. Common prudence and economy required that drugs and medicines should as far as possible be ordered under the descriptions and according to the standards of the British Pharmacopœia. When a doctor ordered a proprietary drug he must be prepared, if called upon, to justify his action to a committee of his professional colleagues.

Eire Chemists' Club. — The annual meeting of the Eire Pharmaceutical Chemists' and Students' Club, held recently in Dublin, was presided over by Mr. Seamus Fox (chairman). Mr. Fox said the club had now drawn up rules putting the committee on a secure basis and enabling trustees to be appointed. Mr. M. Walshe (secretary) reviewed the year's activities, which included the annual dance and fifteen other dances, an outing to Leixlip and a football match arranged in Belfast. Mr. Brady (president, Pharmaceutical Society of Ireland) also spoke. Mr. W. J. Gardner (treasurer) reported an income of £653, and expenses of £112 (including grants to the Gaelic Athletic Association and Camogie Clubs). The club fund was now at £1,916. Mr. Coleman thought the club would soon have suitable premises. At a meeting held subsequently the following officers were elected: *President,* Mr. P. A. Brady; *Vice-president,* Mr. T. C. Scott; *Chairman,* Mr. E. Browne; *Vice-chairman,* Mr. T. O'Keefe; *Secretary,* Mr. M. Walshe; *Treasurer,* Mr. W. J. Gardner.

OVERSEAS NEWS

Brazil to Purchase Insecticides.—A Bill proposing a special credit of 100 million cruzeiros for the purchase of equipment and insecticides for combating the coffee Broca pest has been approved by the Brazilian Senate Finance Commission.

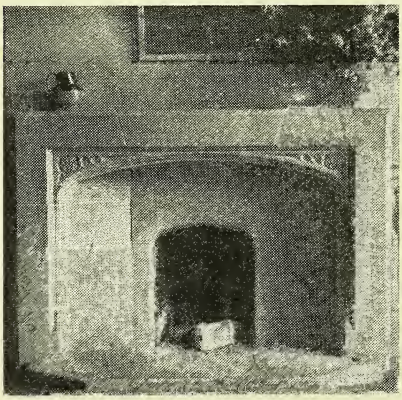
Turkish Olive Oil.—The current Turkish olive crop is estimated to yield 35,000 tons of olive oil. As the carryover from last season is estimated at around 7,000 tons and the average annual local consumption is around 20,000 tons, some 22,000 tons is available for export.

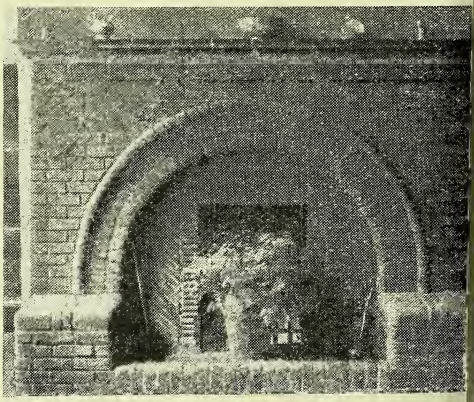
Medical Gas Markings.—A committee appointed by the South African Standards Council to draft a code for medical gases contained in cylinders has recommended that sections of the code of distinctive colour markings for such gases shall be made compulsory in the Dominion.

Isotope Detection of Thyroid Cancer.—The successful use of radioactive iodine to detect thyroid gland cancer has been reported to the U.S. Chapter of International College of Surgeons by Dr. Luther R. Leader, Detroit. The isotope had accurately signalled cancer in 91 per cent. of thyroid cases he had studied during a year and a half.

Penicillin in Spain.—Three financial and scientific groups in Spain are understood to be ready to produce penicillin, once Government approval is forthcoming. The Spanish Cabinet has decided to stimu late penicillin production in view of th high cost of imports. National consump tion requirements amounted to about te million 100,000-unit containers per year This year, the authorities have importe nearly three million containers, valued a over £250,000. At present, penicillin i sold freely in most of Spain's principa towns.

Australian Health Bill. — The Austra lian Minister of Health and Social Servic introduced into the Senate on Novemb 24 a Bill to establish national health se vices. The Bill empowers the Commo wealth Government to make grants to th Australian States and other authorities f the construction, improvement, equipmen or maintenance of hospitals and for th provision by the States of any nation health service, or to take over services hospitals. The Commonwealth's initi rôle would be to give financial aid. Se vices which the Bill empowers the Co monwealth to provide include gener consultant and specialist medical and de tal services, ophthalmic, maternal, a child-health services, aerial medical a dental services, and diagnostic and ther peutic convalescent aftercare and nursi services. The Bill also authorises the esta lishment of a medical benefit scheme p viding for the payment of a portion of t fees of doctors taking part in it. There to be no nationalisation of doctors, de tists or members of allied professions.





MANCHESTER'S GIFT TO BIRDSGROVE HOUSE.—Visitors to the Pharmaceutical Society's Convales Home are now enjoying to the full the handsome dining-room and lounge fireplaces presented to Birdsgr House by the Manchester Pharmaceutical Association and Branches. The presentation was in memory of late Mr. J. H. Franklin, Ph.C. (see C. & D., June 19, p. 782).

TOPICAL REFLECTIONS

o-operation by Exporters

Dr. Catleen's suggestions on co-operaon between manufacturers who intend to xport (p. 708) are a helpful reminder of e difference between entering the export arket unaided and entering it with an xperienced collaborator. To many smallale manufacturers there comes the idea of orking up an export trade in an article ready successful in the home market: e question is how to set about it. In assing, I may point out that an answer to letter on the labelling of pharmaceutical eparations for export (p. 710) is to be und on p. 709, where it is mentioned at in Egypt the formulas of imported oducts must be communicated to the inistry of Public Health. This requireent used to be (and probably still is) in rce in many countries, with the further ovision that such formulas must appear all labels. As Dr. Catleen indicates, ambers of commerce and certain trade sociations can help prospective exporters putting them in touch with experienced anufacturers who are willing to help in e way mentioned. Failing this help, a ginner might launch into the unknown d put himself into the hands of an overas agent whose credentials he would have take on trust. It need hardly be added at this would be a risky start for any terprise. The safer way is the way outed in the article referred to.

eights and Measures Inquiry

A news paragraph (p. 685) and a quesn in the House of Commons (p. 693) mind us that the Board of Trade is conicting an inquiry into the law governg British weights and measures. The t that "a number of interested trading, ministrative and scientific organisations" ve been asked to submit views to the mmittee of inquiry may be an indication at there is little or no general interest this question. Had there been any despread dissatisfaction with the law or th its administration, your readers uld have been informed of it. It is erefore conjectural how the members of e committee will delimit their subject. t their proceedings need not be merely ademic. They might, for instance, remmend that the Legislature iron out me of the awkward equivalents in existg standards. The imperial ounce should, rely, not contain 437.5 grains to all eterty, nor should the rod, pole or perch similarly equal 30.25 square yards. To fortify themselves with an historical background, they might study—if they do not already know—facts given on pp. 817-33 of your Special Issue of June 29, 1929. There they will find references to the weights and measures of ancient Egypt, Assyria, Greece and Rome, an account of the evolution of the present standards in Great Britain, and a few associated matters. If the present official inquiry is to be the prelude to a new departure in legislation, it may be hoped that the appointment of a House of Commons committee in 1758 to report on standards will not be taken as a precedent; for the resulting construction of a new imperial pound was not effected till 1844.

Interesting Questions

Various questions, some of them of considerable interest, might be settled by this committee. One which may be respectfully submitted is: Where, and how long, did the ounce contain nine drachms or six solidi (otherwise known as hexagia or aurei)? A short account of these values is found in "Johannes de Mirfeld of St. Bartholomew's . . ." (1936), by Sir Percival Hartley and Mr. H. R. Aldridge. Mirfeld, writing in Latin, cited the "Schola Salernita" as an authority for his statement. Even in his day (*circa* 1360-1400), equivalences for weights were not so clear-cut as could have been desired. He noted that twenty grains of corn were traditionally equal to a scruple; contemporary apothecaries, however, used a penny as the weight of that denomination, although a scruple was equivalent in weight to three farthings *plus* one-third of a farthing. Again, he recorded the use of two different pounds. The larger of them weighed sixteen ounces, the smaller one twelve ounces. According to him, the larger pound was used in selling liquids, the smaller in selling dry goods. If the silver penny weighed (as the Encyclopædia Britannica, 11th ed., states) 20 grains in 1346 and 18 grains in 1351, an ounce of nine drachms must have weighed 540 grains and 486 grains in those years respectively. The scholarly research of the translators from Mirfeld has not brought to light much information about him: it appears that he was ordained in London in 1395 and died in 1407. Though he wrote two treatises on medicine, he did not profess to be a physician.

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COMPANY NEWS

ANTITCH, LTD. (P.C.). — Capital £5,000. To carry on the business of wholesale, retail and manufacturing chemists and druggists, etc. First directors are not named. Solicitors: Playne & Co., 9 Cavendish Square, London, W.1.

E. PHILLIPS (SLOUGH), LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, drug merchants, etc. Frederic Phillips and Eleanora M. Phillips, directors. R.O.: 6 Baylis Parade, Stoke Poges Lane, Slough.

R. A. CHESHIRE, LTD. (P.C.).—Capital £4,500. To acquire the business of a pharmaceutical chemist carried on at Cleeve House, 3 Lyefield Road West, Charlton Kings, Glos. Margaret E. Cheshire and Roy B. Cheshire, directors.

HAIRTEX LABORATORIES, LTD. (P.C.).—Capital £1,000, To carry on the business of manufacturers of and dealers in hair preparations, soaps, cosmetics, etc. John A. Knowles, Harold Astin, and Ethel M. Knowles, directors, 31 Churchgate, Southport. R.O.: 30A Zetland Street, Southport.

ERNEST BRIAN & SON, LTD. (P.C.).—Capital £3,000. To acquire the business of chemists and druggists carried on at 25 Mill Street, Macclesfield, and at 38 Palmerston Street, Bollington, Macclesfield, as Ernest Brian & Son. E. P. Brian, M.P.S., director.

ROLI MANUFACTURING CO., LTD. (P.C.).—Capital £100. To carry on the business of manufacturers, wholesalers and retailers of fine chemicals, cosmetic and pharmaceutical articles, etc. Thomas H. S. Ross, director. R.O.: 112 Cannon Street, London, E.C.4.

MARTINS COSMETICS, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in cosmetics, soaps, proprietary medicines, etc. David W. Leigh, Ray Leigh and Martin Cooper, directors. R.O.: 38 Sevenways Parade, Gants Hill, Ilford.

S.E.O. (BATHSALTS), LTD. (P.C.).—Capital £100. To carry on the business of chemists, druggists, manufacturers of bath salts, perfumes, etc. Bernard van Cutsem, Rupert Gerard and Frederick L. Armstrong, directors. Solicitors: Withers & Co., 4 Arundel Street, London, W.C.2.

BLYNDS HILL LABORATORIES, LTD. (P.C.).—Capital £1,000. To acquire the business of manufacturing chemists carried on at Blynds Hill Works, Farnworth. Raymond Dewhurst, Ronald Dewhurst, Alice Lucas and Leonard Holt, directors. R.O.: Causeway Mills, Longcauseway, Farnworth, Lancs.

MEDICINAL & CULINARY HERBS, LTD. (P.C.).—Capital £5,000. To acquire the business of growers, collectors, processors, etc., of herbs and crude drugs carried on as Williamson, Dalrymple & Co., at Weobley, Herefords. Philip Pechersky and Abraham Pechersky, directors. R.O.: 1 New Court, Lincoln's Inn, London, W.C.2.

PEST CONTROL HOLDINGS, LTD. (P.C.).—Capital £1,000,000. To acquire the whole or part of the issued share capital of Pest Control, Ltd.; to adopt an agreement with the said company, Guy A. K. Marshall, Stanley O. Ratcliffe, Walter E. Ripper, Denis H. Scott and Ernest J. Parker; a to carry on the business of experts, advisers, a to conduct research in biology, hygiene and ag cultural sciences, etc. First directors are to appointed. R.O.: Bourn, Cambs.

LEGAL REPORTS

Colchicine in Pills. — At Acton mag trates' court, on November 12, Phillips Taylor, Ltd., Acton Lane, Chiswick, Lo don, W.4, pleaded guilty to selling c chicine (in Eade's pills) in contraventi of the Pharmacy and Poisons Act, 19 They were fined a total of £15, w £5 5s. costs.

Not a Listed Seller. — At St. Iv Huntingdons, police court, on Novemb 23, Walter Arthur Scrivener, general sh keeper, Houghton, was fined £3, a ordered to pay 10s. costs, on a charge selling, on October 13, a bottle of San I (containing phenol), when not registe under the Pharmacy and Poisons A 1933. He had been warned two mon before the offence.

Pharmacist Absent. — At Hull po court, recently, Vinegrad (Chemists), L 394 Holderness Road, Hull, were fined and costs on each of six summonses selling poison in a medicine not dispen by a registered pharmacist. On August an inspector of the Pharmaceutical Soci visited the premises. He asked to speak the pharmacist in charge, but was told t he was away, out of the country, and expected back for five days. The insp tor found a number of National Hea Service prescriptions and noted that six been dispensed during the time he had b told that the chemist was away. A p of guilty was entered.

BUSINESS CHANGES

DOLS' VOLATALISE FLANNEL, LTD., are now a Westgate, Huddersfield.

THE telephone number of Guy, Morrison Co., Ltd., 3 Bayley Street, London, W.C.1, m facturers of the Buk electric dry shaver, Museum 8744.

MR. ROGER DUNCALFE has been elected chair of the general council of the British Stand Institution in succession to the late Sir Clif Paterson, F.R.S.

H. H. HUFFER & B. A. SMITH, LTD., whol and manufacturing chemists, have removed to factory premises at New Era Works, Purley V Croydon, Surrey.

MR. D L. CARTER, M.P.S., has acquired the ness at 114 Fowler Street, South Shields, form carried on as a branch pharmacy by Mr. Tu Bell, M.P.S. Mr. Turner Bell retains contro his pharmacy at 9 Woodbine Street, South Shi

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

. NIALL MACPHERSON asked the Minis- of Food on November 22 whether he ld now decontrol the supply of glucose manufacturers of confectionery. DR. TH SUMMERSKILL: "No." Further asked he would be prepared to issue a cer- proportion of the sugar allocation to ll manufacturers of confectionery in form of glucose, thus adding greatly the variety that they could make, she l that certain manufacturers already glucose but the supply of glucose de- ded on the supply of maize and starch, ch was short.

ss Radiography in Scotland

MR. ROSS asked the Secretary for Scot- d on November 23 how many mass iography units were in operation in tland. MR. WOODBURN replied that two units were in operation in Glasgow, in Edinburgh and one in Motherwell.

ts Participating in N.H.S.

IEUTENANT - COMMANDER HUTCHISON d the Secretary for Scotland on ember 23 the approximate percentage the population of Scotland that had ed the National Health Service. The y was "Approximately 94 per cent." was estimated, said MR. WOODBURN, there were some 2,400 doctors and e 1,200 dentists in general practice in land; 2,364 doctors and 1,124 den- had joined the service.

nposition of Soap-substitute Powders

R. SIDNEY SHEPHARD asked the Minis- of Food on November 24 if he was re that many soap substitutes in the of powders were highly injurious to ing, and what steps he proposed to to enforce his regulations governing composition of them.

R. JOHN STRACHEY: The formulas for substitutes are carefully examined. If Shephard has reason to think that rticular product does not conform to approved formula, and will send me ils, I will look into it.

sh Installation in Palestine

R. S. SEGAL asked the Foreign Secre- on November 24 what was the extent he damage sustained at the Dead Sea llation of the Palestine Potash Co. C. P. MAYHEW (Under Secretary) replied that, according to his information, the company's works at the northern end of the Dead Sea had been largely destroyed. The works at the southern end, and the boats used for transport, were said to be intact.

Tax on Deaf-aid Valves

MR. H. BOARDMAN asked the Chancellor of the Exchequer on November 24 whether he was aware of the anomaly that, while a few sets of deaf-aid apparatus were now becoming available and supplied free of charge under the National Health Service, persons with previously-bought apparatus were still having to pay 5s. 8d. purchase tax on renewal of valves. SIR STAFFORD CRIPPS replied that the only valves chargeable with the purchase tax were those suitable for use with wireless receivers. When wireless valves were used in deaf-aids—which he understood to be unusual—it would not be practicable for him to provide special relief.

Export Department Changes

MR. M. EDELMAN asked the President of the Board of Trade on November 25 what change he had decided to make in the organisation of his department affecting its services to the country's export trade. MR. HAROLD WILSON replied that he had decided to amalgamate the Commercial Relations and Treaties Department and the Export Promotion Department, so that both trade policy and matters of trade promotion would be the responsibility of a single department, to be known as the Commercial Relations and Exports Department. The position and duties of Mr. H. Bottomley (Secretary for Overseas Trade) would not be affected.

Medicines from School Clinics

MR. C. YORK asked the Minister of Health whether he would take steps to provide for the supply, free of charge, of medicines and drugs prescribed by school medical officers at school clinics. MR. ANEURIN BEVAN said he understood that medicines supplied at a school clinic would be supplied without charge. If a school medical officer thought that a pupil required other medicines, he could refer the patient to his National Health Service doctor, who could prescribe for free supply under the Service.

DEATHS

Brace.—On November 20, after a short illness, Mr. Arthur Gordon Brace, aged sixty-nine. Mr. Brace was for twenty-seven years managing director of A. Gordon Brace, Ltd., 122 High Street, Herne Bay, Kent. His son, Mr. Derek G. Brace, is a member of the Pharmaceutical Society.

Ellis.—At 67 High Street, Banff, on October 10, Mrs. Mary Simpson, widow of the late Mr. George Ellis, M.P.S., aged ninety-two.

Evans.—On November 8, Mr. George Evans, M.P.S., 40 High Street, Nantyffyllon, Glamorgan. Mr. Evans qualified in 1915.

Geddes.—At his home, 15 Greenways, Beckenham, Kent, on November 29, Mr. Edwin Alexander Geddes, M.P.S., aged fifty-nine. Mr. Geddes was a director of Geddes & Barham, Ltd., Sanderstead, Geddes & Cottam, Ltd., Shirley, Geddes & Weir, Ltd., Sydenham, and Geddes & Johnston, Ltd., Forest Hill. He qualified as a chemist and druggist in Edinburgh in 1911 and served as an assistant with A. K. Stewart, Edinburgh, and later with Duncan, Flockhart & Co., Edinburgh, before entering into business on his own account nearly thirty years ago. He had been a Freemason for many years and was a Past-Master.

Gutteridge. — On November 24, Mr. F. L. Gutteridge, The Elms, Great Meols, Wirral, Ches. Mr. Gutteridge joined Evans Medical Supplies, Ltd., Liverpool, in 1902, and retired in April 1946 after forty-four years' service. During the greater part of that time he had been a representative of the company, mainly in north and west Lancashire.

Hindle.—At 31 Westella Road, Kirkella, East Yorks, on November 25, Mr. Edward Hindle, Ph.C., 218 Hessle Road, Hull, aged fifty-seven. Mr. Hindle qualified as a chemist and druggist in 1912, and passed the Pharmaceutical Chemist examination the following year. His apprenticeship was served to Mr. E. H. Earle, Hull, and he was a contemporary at "the Square" (the School of Pharmacy of the Pharmaceutical Society), of Professor J. Small, Belfast. After a short period in the West End of London, Mr. Hindle joined the staff of Lofthouse & Saltmer, Ltd., Hull, and in 1920 established his own business in that town. From 1921 he was a member of the local Pharmaceutical Committee. Mr. Hindle was also a past-master of the Minerva Lodge of Free-masons and an enthusiastic golfer.

Powell.—On November 18, Mr. Bertram Henry Powell, M.P.S., 87 London Road, Cheltenham, formerly of Birmingham, aged seventy.

Price.—Recently, Mr. Joseph Price, 4 Bath Street, Leamington Spa, aged eighty-five. Mr. Price qualified as a chemist and druggist in 1888. He was the first secretary of the Warwick, Leamington and District Pharmaceutical Association, and a founder member of the original Pharmaceutical Committee for the county.

Reid.—At Dungannon Hospital, co. Tyrone, Northern Ireland, on November 25, Mr. John Reid, formerly of 67 Scott Street, Dungannon. Mr. Reid qualified as a pharmaceutical chemist in 1930.

PERSONALITIES

Mrs. R. E. Howard (widow of the late Mr. R. E. Howard, Birmingham) and family send thanks for many messages of sympathy in their bereavement.

Sir Robert Robinson has been re-elected President of the Royal Society and Professor David Brunt elected the Society's Physical Secretary in succession to Sir Alfred Egerton.

Mr. R. Campbell Feather, M.A., B.Sc., A.R.I.C., M.I.Chem.E. (president Chemists Federation, and managing director, Meggeson & Co., Ltd.), has been appointed a governor of Twickenham Technical College, and of Spring Grove Polytechnic, Middlesex.

Mr. James McGirr, Premier of New South Wales, and a pharmacist (see a[illegible] *C. & D.*, October 23, p. 527) contributed to "The Times" on November 23 an article on industrial developments in N.S.W. He made reference to a Technical University established in the State to "meet the need of the times" by producing large numbers of graduates in technological subjects.

The Royal Society has made the following awards for 1948: The Copley medal to Professor A. V. Hill, C.H., for contributions to the physiology of muscular processes; the Rumford medal to Professor F. E. Simon, C.B.E., for researches on the properties of matter at low temperatures; the Davy medal to Professor E. L. Hirst, for contributions to the chemistry of the carbohydrates; and the Darwin medal to Professor R. A. Fisher for his studies of biological evolution.

THE LATE MR. R. MURDIN DRAKE

E death on November 21, following an eration for appendicitis, of Mr. Reginald urdin Drake, B.E., M.Sc., R.I.C., joint nager of the sociation British Chemical anufacturers, the age of forty-, is announced h great regret. . Drake had n with the Asso-tion since 1926. rn in Hudders-d in 1902, he aduated B.Sc. ons.) from Leeds iversity in 1924 and M.Sc. in 1925. was elected an F.R.I.C. in 1946. In September 1926 he joined the B.C.M., where he followed Mr. A. J. lacrida and the late Mr. G. S. W. rlow and worked with the late Mr. J. U. Woolcock as technical assistant. m 1927 he acted as secretary of the ndardisation of Tar Products Tests mmittee, which published the first series standard tests on this subject in 1929 cy were later adopted as they stood by British Standards Institution as the ndard tests in specifications for tar pro-cts). He was actively engaged on the ision of the tests at the time of his th. Up to 1939, Mr. Drake specialised such matters as the Association's direc-y, key industry duties, import and ex-t licensing and statistics, production and plies of fine and pharmaceutical chemi-s, etc., on which he became an acknow-ged authority. In the early days of the r he worked with the Ministry of Health d the Ministry of Supply on an exhaus-e survey of requirements and supplies medicinal chemicals and drugs in this ntry, for which he was made an O.B.E. the New Year honours list in 1941.

r-time Duties

When, in May 1940, Mr. J. Davidson tt (general manager of the Association) s seconded to the Ministry of Supply at rt notice, Mr. Drake and Mr. A. J. Hol-n carried on the Association as assistant nagers. Their services were recognised their appointment as joint managers en Mr. Pratt returned to become direc-in 1945. In October 1946, Mr. Drake went to India with Mrs. Drake and spent six months organising the Association's Eastern branch office with the branch manager in Bombay. Earlier he had been secretary of the British Disinfectant Manufacturers' Association and at the time of his death was also secretary of the British Barytes Producers' Association and the Pharmaceutical and Allied Chemicals Disposals Association, Ltd. He was chairman of the Fine Chemical Industry Committee of the British Standards Institution and served on many other committees. He was one of the Association's representatives on the Chemical Council and on other bodies.

At the funeral the A.B.C.M. was represented by Sir Harry Jephcott (chairman), Messrs. R. Duncalfe (vice-president), J. Davidson Pratt (director), A. J. Holden, W. A. Williams, A. G. Mussell, Miss A. Frater and Mrs. C. Parkinson. Other organisations represented included the British Disinfectant Manufacturers' Association, the Association of British Sheep and Cattle Dip Manufacturers, the British Standards Institution, the British Chemical Plant Manufacturers' Association, the Pharmaceutical Export Group, the Proprietary Association of Great Britain and the Association of British Pharmaceutical Industry. Manufacturers represented included Laporte Chemicals, Ltd., Albright & Wilson, Ltd., Monsanto Chemicals, Ltd., Johnson & Sons, Manufacturing Chemists, Ltd., and Burroughs Wellcome & Co.

WILLS

Mr. Albert James Clapp, M.P.S., 16 Curzon Road, Maidstone, Kent, left £1,854 (£1,707 net).

Mr. U. A. Coates, M.P.S., 255 Coal Clough Lane, Burnley, Lancs, left £474 (£408 net).

Mr. H. Weir, M.P.S.I., 27 Pearse Street, Mullingar, co. Westmeath, Eire, left £15,564.

Mr. R. A. M. Todd, M.P.S., 43 Melton Road, Syston, Leics, left £10,075 (£9,617 net).

Mr. W. J. Smyth, Marine Terrace, Carrickfergus, co. Antrim, retired chemist, left £2,664.

Mr. D. S. Adam, M.P.S., 13 High Street, Chelmsford, Essex, left £1,388 (£1,285 net).

Mr. J. E. Morris, M.P.S., 28 Jepson Road, Sheffield, Yorks, left £285.

Mr. R. Salthouse, M.P.S., 307 Oxford Road, Manchester, left £5,245 (£5,098 net).

Mr. A. G. Kennedy, M.P.S., 2a Grove Park, Liverpool, left £8,149 (£6,919 net).

Mr. J. Denerley, M.P.S., 682 Aigburth Road, Liverpool, left £6,994 (£6,913 net).

Mr. E. Varley, M.P.S., 182 Lee Lane, Horwich, Lancs, left £7,069 (£7,013 net).

TRADE NOTES

Available in Winchesters.—H. R. Napp, Ltd., 3 Clements Inn, London, W.C.2, announce that Abecedin emulsion is now available in 80-oz. winchesters.

Books on Medicine.—The 1948 catalogue of H. K. Lewis & Co., Ltd., medical publishers and booksellers, 136 Gower Street, London, W.C.1, is now available.

Ear Caps.—M. J. Fecher, Ltd., 121 High Street, Slough, Bucks, are the makers of Cuckoo ear caps for use as "correctors" on babies whose heads differ slightly from the normal.

Polyvitamin Tablets.—Roche Products, Ltd., Welwyn Garden City, Herts, have introduced a new sugar-coated, polyvitamin tablet under the name Protovite. The tablet contains vitamins A, D, E, B_1, B_2, C and nicotinamide.

Calendars for Customers. — Optrex, Ltd., Wadsworth Road, Perivale, Greenford, Middlesex, are distributing to chemists throughout the country (for issue to customers), a small pocket calendar for 1949.

Anti-smoking Preparation. — Fubex Laboratories, 27 Albemarle Street, London, W.1, offer a new preparation Nicotex, in display outers of three doz. tubes, each containing twenty tablets. Nicotex tablets are claimed to "reduce the crave for a smoke."

New Vitamin Capsules. — John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1, have introduced Ossivite capsules (each containing 214 mgm. bone meal, 2,500 international units vitamin A and 500 i.u. vitamin D) in containers of sixty capsules.

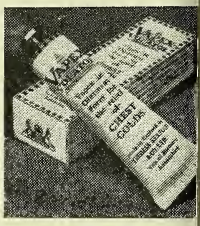
Price Reduction. — Southon Laboratories, Ltd., 88 Upper Richmond Road, London, S.W.15, have reduced the price of U.F.I., which is described as a non-toxic powder effective against penicillin-resistant organisms.

Exhibition Bulletin.—The first number of a new monthly publication, issued by the London Bureau, 14A Samos Road, London, S.E.20, gives details of forthcoming exhibitions, a directory of exhibition services, and a chart showing bookings at various well-known exhibition centres.

Dispatch Within 24 Hours.—The Dublin Chemical Co., Ltd., 39 Dame Street, Dublin, Eire, offers regular unrestricted supplies to all parts of the British Isles and British Empire of Ducol brand glycer monostearate powder and block. Sampl and quotations will be sent to any chemi on request.

Tax on Zinc and Castor Oil Cream.- C. R. Harker, Stagg & Morgan, Lt Emmott Street, London, E.1, state that their advertisement in the *C. & D.*, Oct ber 23, their zinc and castor oil cream w inadvertently described as free of purcha tax. Purchase tax should be added to t prices there given.

For Topical Application. — Vape Volatol has been introduced by Thom Kerfoot & Co., Ltd., Bardsley Vale, Ashton-under-Lyne, as a means of presenting Vapex in the form of a non-greasy, non-staining ointment or liniment for topical application.



Rubber Floor Mats.—C. E. Fulfo Ltd., Carlton Hill, Leeds, 2, offer at modest price a limited quantity of attra tive rubber floor mats, size 18 in. by in., advertising Bile Beans. A supply rubber counter mats advertising Zam-B will be sent free, when delivery is made, each purchaser of a floor mat.

Distribution Offer.—Don S. Momar Ltd., 57 Albany Street, London, N.W.1, vite communications in confidence fr manufacturers wishing to place the dist bution for the British Isles of a proprieta preparation not competing with any issu by Messrs Momand. An announceme appears on another page.

Succinate-salicylate Therapy.—Dolc Ltd., 110 Jermyn Street, London, S.W are now marketing in this country Dol (a preparation that has for some time be available in the United States and Canad for the relief of rheumatism, sciatica a lumbago. Each tablet contains gr. 2.8 c cium succinate and gr. 3.7 aspirin. T product is presented in bottles of 100 ta lets.

Change of Programme. — Houg Hoseason & Co., Ltd., Atlas Laboratori Levenshulme, Manchester, 19, have packed in modern presentations fifteen their packed pharmaceutical items. T

w packing will replace the old on Decem- 6. On the same date twenty-seven of company's preparations are reduced in ce, and the manufacture of a number miscellaneous packed pharmaceutical ms is being discontinued. A new price- giving revised prices and retail terms obtainable on application to the com- ny.

Films for Pharmacists. — The film rary of The Crookes Laboratories, Ltd., rk Royal, London, N.W.10 has been gmented by the addition of two sound ns: "The Story of Halibut Oil" (30- nute) and "Emulsions" (15-minute). e films are at the disposal of phar- cists, and are suitable for showing at nch meetings. No charge is made for ir loan, but applicants should give, if sible, an alternative date upon which the w can be arranged.

Concentrated Lamb-dysentery Serum. Burroughs Wellcome & Co. (the Well- me Foundation, Ltd., 183 Euston Road, ndon, N.W.1), are now issuing (in ample e for the 1949 lambing season) a con- ntrated and highly refined lamb-dysen- y serum. The serum was developed at the llcome Research Laboratories, and a .c. dose is claimed as efficient as a 5-c.c. se of ordinary lamb-dysentery serum. It contains sufficient specific antitoxin to e a high level of protection against pulpy ney disease during the first four weeks life. Wellcome brand concentrated nb-dysentery serum is issued in containers 50 c.c. (25 doses). Serum of the old e will continue to be available, but all specified orders will be filled with the w concentrated material.

Proprietary Articles Trade Association

dditions to Protected List (Part 1).—*Allen & nburys, Ltd.*, Dienoestrol tablets, 5-mgm., 25's, doz., 3s.; 100's, 72s. doz., 9s.; 1,000's (dis- sing), 36s. each (all exempt from tax).

. L. Bragg, Ltd., new sizes, medicinal char- l, B.P.C., tablets, 250's, 43s. doz., 4s. 6d.; nges, 100's, 26s. doz., 2s. 8½d. (all exempt n tax).

larke, Davis & Co., Gluco-Thricil, 1 fl. oz., , 4s. (exempt from tax). Citralka liquid, 16 fl. 44s., (tax 33⅓ per cent.), inclusive retail price 9d. (8 oz. size Citralka liquid withdrawn).

Alterations to List (Part 1).—*Jeyes Laboratories*, ., reduced prices, November 29, Streph anti- tic, 4-oz.. 9s. 9d. doz. (tax 33⅓ per cent.), lusive retail price 1s. 6d.

'arke, Davis & Co., Vi-Siblin, 4-oz., 24s. doz. x 33⅓ per cent.), i.r.p. 3s. 8d.; 1-lb., 86s. doz. x 33⅓ per cent.), i.r.p. 13s. 2d.

St. Andrew Mills, Ltd., Camelia sanitary towels standard, 16s. 3d. doz., 1s. 9d.; size 1, 17s 5d. doz., 1s 10½d.; size 2, 20s. 2d., 2s. 2d.; size 3, 25s. 2d, doz., (all exempt from tax).

Additions to List (Part 2).—*Munro Vitarex, Ltd.*, Charmony Heaven Scent, 12s. doz. (tax 100 per cent.), i.r.p. 2s. 6d.

Deletions from List (Part 1).—*Potter & Clarke, Ltd.*, Hedakene. **(Part 2).**—*Gala of London, Ltd.*, All Gala toilet preparations. *Invicta Proprietaries, Ltd.*, Invicta lemon flavouring. *Munro Vitarex, Ltd.*, Charmony lipsticks.

Alterations to List (Part 2).—*North Western Laboratories, Ltd.*, Gay Venture beauty preparations: Cleansing, cold and hand creams, No. 1, 14s. 5d. doz. (tax 100 per cent.), i.r.p. 3s.; No. 2, 22s. 5d. doz. (tax 100 per cent.), i.r.p. 4s. 8d.; foundation cream and skin food, No. 1, 16s. doz. (tax 100 per cent.), i.r.p. 3s. 4d.; No. 2, 24s. doz. (tax 100 per cent.), i.r.p. 5s. Make-up base, 16s. doz. (tax 100 per cent.), i.r.p. 3s. 4d.; face-powder, 18s. 8d. doz. (tax 100 per cent.), i.r.p. 3s. 11d.; lipstick, 25s. 4d. doz. (tax 100 per cent.), i.r.p. 5s. 3d.; lipstick refill, 8s. doz. (tax 100 per cent.), i.r.p. 1s. 8d. £5-£10 orders, less 7½ per cent.; £10 and over orders, less 10 per cent. Further 3¾ per cent. for cash in seven days or 2½ per cent monthly account.

FIFTY YEARS AGO

Metric Waits

(*From the C. & D., December* 3, 1898)

SIR,—I have just read your not unfriendly review of my book "The Coming of the Kilogram." I am glad that in this matter I have the co-operation of a journal which reaches such an important section of the commercial world as THE CHEMIST AND DRUGGIST. There is, however, one point on which I ask leave to take issue with your reviewer. He says, in effect, that I have wasted a hundred pages in explaining the nature of our existing weights and measures, the value and use of decimals, and the theory and practice of the metric system; and he thinks I should have been well-advised if I had confined myself to giving instances of the practical disadvantage which British merchants suffer by reason of the non-adoption of the metric system in the United Kingdom . . . I must confess it is not to the instructed few that I appeal. In the first place, they are already convinced, and, in the second place, if I may say so, I do not observe that, despite their instruction, they have as yet done a hand's-turn of useful work in the direction of altering the state of things the existence of which they deplore. I am afraid, if I have to wait until those actively engaged in commerce succeed in introducing the metric system on their own initiative, I shall have to wait a long time.

H. O. ARNOLD FORSTER.

RECENT SCIENTIFIC DISCOVERY

Royal Society Anniversary Address by Sir Robert Robinson

SIR ROBERT ROBINSON (President of the Royal Society), commenting in the Society's 286th anniversary address, given in London on November 30, on new scientific discovery, paid tribute to discoveries made by pharmaceutical manufacturers in their research departments. Isolation of the intrinsic, anti-pernicious anæmia factor from liver, by Mr. A. Lester-Smith and colleagues at Glaxo Laboratories, Ltd., in England, and by a team of chemists of Merck & Co. in the United States was a triumph of modern chromatography, he said, with a vast medical, agricultural, and biochemical interest. The red crystalline substance contained cobalt in a co-ordination complex that probably included three atoms of phosphorus. Knowledge of the constitution of vitamin B_{12} would suggest other correlations, perhaps with nucleotides, or folic acid, which would be of great significance. The molecule was not especially complex by modern standards, and its structure could be determined, provided sufficient effort were made. The trouble would be to get enough of the factor for investigation by ordinary methods; that was a good illustration of the value of microphysical devices. He understood that the infra-red absorption spectrum, determined by a new technique had already given valuable information, confirming the presence of PO, NH, and OH groups, and indicating absence of aliphatic CH but probable presence of aromatic CH, as in benzene or purines.

The chemists and biologists of Parke, Davis & Co. were to be congratulated on the discovery and investigation of chloromycetin, a new antibiotic that had proved effective against scrub-typhus and certain analogous infections. The constitution of chloromycetin had not been disclosed, but was said to be known, and apparently the substance had been synthesised. The compound made possible the first satisfactory chemotherapy of a disease caused by a Ricketsia, and opened up possibilities of control of virus diseases generally.

Bio-Chemistry of Cancer

Workers seemed to be on the verge of great discoveries connected with the effects of chemical substances on cell growth, including malignancy. In the United States, Dr. Rhoads and his colleagues had paid much attention to antagonists of folic acid. These were synthetic compounds the molecules of which were planned to resemble those of folic acid. Several had been found to exert an inhibitory effect on the bone-marrow, producing anæmia, which could be reversed by folic acid. One of the most promising of the substances was A-methopterin, which was folic acid with an amino-group replacing a hydroxyl, and a methyl group replacing hydrogen. The substance was anti-folic, anti-œstrogenic, and had an inhibitory effect on the growth of tumours in laboratory animals, as well as of malignant cells in tissue culture. Folic acid was regarded as necessary for the growth of all cells, and it was hoped to find a substance of low toxicity that would antagonise the factor at the level necessary to immobilise the more sensitive malignant growth without serious detriment to normal cells. It was known that laboratory work had encouraged clinical trials, but results had not been disclosed.

Preparation from Wheat Middlings

Dr. T. B. Heaton and Lady Robinson had prepared from wheat middlings a carbohydrate material that was either itself active against carcinoma, or more probably, contained an active principle. It might even be a vitamin. Since, in some of the earlier experiments the material had been held at a low *pH*, formation of hydroxymethylfurfuraldehyde was a possibility, and it was known that many aldehydes possessed growth-inhibitory properties. It had been found that hydroxymethylfurfuraldehyde, or better its polymeride, also caused retrogression of the tumours. At the Chester Beatty Research Institute, London, Dr. A. Haddow and his colleagues had tested the effects on normal growth of a number of pyrimidine derivatives. Administration of 9-phenyl-5 : 6-benzo-*iso*-alloxazine to albino rats had been accidentally found to produce an orange-yellow pigmentation of the hair. Pursuing this observation, other similar substances had been tested, among them xanthopterin, the butterfly wing pigment. The compound did not colour the coat but produced a significant enlargement in the size of the rat kidney, due to a great outburst of cell division in the kidney tubules.

In the course of research on the carcinogenicity of many styrylpyrimidines (by Haddow and colleagues), it had been found that two substances of the group, closely allied to xanthopterin in structure, had the

me effect in increasing the growth of the dney. This could not be mere coin-dence and proved that the effect was a imary one of xanthopterin and related rimidines on the cell. The phenomenon d been observed in the various rodents. anthopterin was of natural occurence in e kidney, possibly as a growth regu-tor, and its structural relationship with lic acid would not be overlooked. addow and his associates felt it was at ast as important to study the means by hich normal growth was so delicately ad-sted as to inquire directly why the mal-nant cell was unregulated.

There were further experimental founda-ons for those ideas that had led Had-w and his collaborators to surmise that the -ordinated growth of the normal tissues ight depend upon the supply of essential bstances from an external source and at, contrariwise, malignant cells might ve acquired the power themselves to nthesise these essential substances, or eir equivalents. Such suggestions were lly consonant with all that was known of e subject as a whole, and gave a new ospect for the chemistry of growth and fferentiation.

A notable coincidence in the speaker's n field of work had arisen recently from theory of Woodward regarding the urse of the synthesis of strychnine in the ant. He advanced what seemed at first e fantastic idea that a benzene nucleus, iginally that of dihydroxyphenylalanine r tyrosine) suffered fission so as to give vo oxidised chains that entered into rther transformations. Transferring at mechanism piecemeal into an entirely fferent group of alkaloids, it was found predict for emetine a constitution that uld now be experimentally demonstrated rrect. A few months earlier no con-ction could have been discerned between rychnine and emetine. Now, at one roke, they were connected by recognition a common and remarkable type of bio-enesis.

National Science Centre

Mr. Herbert Morrison (Lord President the Council) in an address to the Royal ociety on the same occasion announced at it was the Government's intention to cquire a site for a National Science Centre London. It would house all the leading ientific societies, including the Royal ociety. The provisional site was in Ken-ngton, and negotiations were in progress acquire the Holland House Estate.

DRUGS IN OPHTHALMOLOGY

A lecture entitled "Recent Advances in Ophthalmology" was given to the Institute of Chemists-Opticians in London on November 23 by Mr. J. Ross-Mansell, B.Sc. (secretary). Mr. Ross-Mansell reviewed the ophthalmic use of a number of recently-introduced drugs. Penicillin, he said, had been shown in experiments on animals and human patients to be justified as an intra-ocular injection of the drug in high concentrations where there were infected perforating eye wounds. A new myotic, di - isopropyl, fluorphosphate (D.F.P.) had recently been introduced that would probably become a valuable adjunct in the treatment of glaucoma. The compound inhibited cholinesterase and was at least 5½ times as potent as eserine, while 5½ times as persistent in its effect. Its action being irreversible, complete destruction of the cholinesterase was implied. One drop per day of an 0.1-0.5 per cent. solution was sufficient in some cases to control intra-ocular pressure. In the treatment of glaucoma with D.F.P., as with other myotic drugs, the dosage must be determined for each individual eye. Another recent pharmacological advance in the field of ophthalmology was the new synthetic mydriatic known as E3 (di-methyl-amino-ethyl benzilate ethochloride), which had proved to be of great clinical value as a substitute for atropine, especially in atropine-sensitive patients. In action it was less intense than atropine, more intense than homatropine; it did not injure corneal epithelium. A corneal anæsthetic that could be safely used by ophthalmic opticians, and had no mydriatic effect, was butacaine sulphate, usually supplied as a 2 per cent., slightly hypertonic solution, but adequate in 1 per cent. solution which was almost isotonic. To overcome the ciliary injection that sometimes occurred, one drop of 1:1000 adrenaline in saline was used to clear the eye.

What's in a Name? — The curative properties of fungus and mould are now so well known . . . that at any time we may expect a deputation from North Wales (led perhaps by an eminent mycologist) with the demand that the town of Mold should be allowed to change its name to Penicillin—or should it be Pen-y-cyllyn? What a perfect name for a health resort! — A correspondent in the "Manchester Guardian."

PHARMACEUTICAL COMMITTEE REPRESENTATIVES

Report by the National Pharmaceutical Union on the Conference hel in London on November 24. (See also *C & D.*, November 27, p. 706)

After the chairman (Mr. G. H. M. Graham) had opened the proceedings with a short address and moved the adoption of standing orders, he stated that the Contractors' Committee supported the ban (in the Statement on Matters of Professional Conduct) on the advertising of a dispensing service except upon the premises where the service is provided. The Committee was further of opinion that the wording "National Health Service Dispensary" should not be used as a description of a pharmacy. The views were endorsed by the Conference, a plea from one delegate that a Press advertisement of dispensing service, if limited to a professional announcement, should not be regarded as non-professional meeting with only limited support. The Conference agreed that payments were a matter between employer and employee.

"Urgent" Fees

A delegate asked if it was possible for the Contractors' Committee to check whether "urgent" fees had been paid. His opinion was that in his area they had not been paid. The Secretary replied that the urgent fees had been priced in the July prescriptions, and that chemists were getting the benefit of the higher average in later months. Delegates said that there were many more "urgent" prescriptions in the winter months, and they requested that the urgent prescriptions should be put into the 5s. and over bundle and priced in full. After discussion, it was proposed that the urgent-fee prescriptions should be put into the over 5s. bundles and should be priced in that bundle. There was a long discussion on the level of "urgent" fees to be payable from January 1949. The Ministry's offer (as set out in U.L. 632) was not regarded as adequate so far as prescriptions carrying the lower ranges of normal dispensing fees were concerned. Ultimately, the matter was left in the hands of the Contractors' Committee.

Pharmaceutical Committee Expenses

The Secretary stated that in future there would be no Checking Bureau levy, but that there would be a levy for the Central Contractors' Committee expenses as a whole. Data was being collected from the Committees about their past expenses.

October-December Pricing

Mr. G. Checkley, Eastbourne, wh asked if the position regarding Octobe November and December was definitel settled, was informed that it was. A dele gate said that the 2 per cent. check wa not enough and suggested a 5 per cen check. The Secretary said this coul not be undertaken; he explained that th notice of full pricing of October prescrip tions was withdrawn at the request of th Contractors' Committee when it was dis covered that October pricing could not b completed in some bureaux until next Ma the intervening months meanwhile remai ing unpriced, and causing arrears for 194 to be even worse than they had been i 1948. Mr. T. Heseltine, who gave report on the work of the Central Pricin Committee, was complimented on the wor already accomplished in that Committe There was much discussion on the positio in various pricing offices, and many sug gestions were put forward as to how pric ing could be speeded up (including high wages, more staff, no collection of statistic and better conditions). It was finally re solved to approve the action of the Co tractors' Committee in regard to the pricin of October, November and December pr scriptions.

Pricing from January 1949

The Conference then considered the pr posals for pricing from January onwards, a set out in N.P.U. circular U.L. 630. Mr. Allen Jones, Lancashire, proposed an Mr. C. W. Hobson, Sheffield, seconded th following resolution:—

> "That this Conference is unanimously of th opinion that pricing in full is the only fair ar equitable manner in which a chemist may r ceive payment for his services, but having regar to the chaotic and unsatisfactory conditions pr sent at certain Pricing Bureaux they would ha to accept the proposals of the Contractors' Co mittee outlined in circular U.L. 630 for a perio to terminate not later than December 1949. is understood that any percentage so agreed b the Contractors' Committee in order to allo U.L. 630 to get under way shall be improve upon at the earliest possible date and shall n be considered entirely satisfactory until 100 pe cent. full pricing is attained. The Conferenc states that this should give the pricing bureau ample time to organise their departments on a

fficient basis to allow the pricing in full of chemists' prescriptions to commence in January 1950."

R. BAYLEY, Essex, proposed and MR. OSS, Middlesex, seconded the following nendment to the resolution:—

"In view of the calculation that, even under J.L. 630, pricing bureaux would start at least month in arrears and slip back a week in each nonth, it is resolved that for 25 per cent. be ubstituted that initial percentage which, in the pinion of the actuary advising the N.P.U., will ffer pharmacists a reasonable protection against nder pricing, and at the same time allow (i) All arrears to be overtaken. (ii) Each month's rescriptions to be priced in a month.

t is understood that any percentage so agreed in rder to allow U.L. 630 to get under way shall be nproved upon at the earliest possible date and nall not be considered entirely satisfactory until oo per cent. full pricing has been attained."

With the agreement of proposers and conders, the resolution and amendment were condensed into the resolution given in full last week (p. 706). As stated there, the resolutions were put to the meeting and carried *nem. con.*

Payment on Account

It was announced from the platform that the system of "payment on acount" was to be adjusted. Under the new system, to be introduced as soon as possible, payment on account per prescription would be at the rate of 80 per cent. of the individual contractor's overall average value per prescription in the most recent fully-priced month. That had been agreed by the Ministry but the Contractors' Committee was pressing that, in addition, the minimum payment on account per prescription should be 1s. 10d. The Conference approved the action of the Committee.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

MEETING of the Council of the Pharaceutical Society of Northern Ireland s held in Belfast on November 19, the sident (Mr. Henry H. Cowzer) in the air. Also present were Messrs. P. R. W. inner (vice-president), H. F. Moore easurer), C. Abernethy, W. H. Boyd, P. Crossin, W. P. Ewart, James cDowell, John McGregor, James Irwin, alter C. Tate, F. R. Moore, J.P., ofessor E. B. C. Mayrs, M.D., and Dr. D. Heazley. The secretary (Mr. W. orman) was in attendance. Apologies re received from Messrs. H. W. Gamble d S. E. Campbell.

sit to Londonderry

The president reported on a recent visit Londonderry Technical College and the leraine Technical School at which two asses in the subjects for the Society's eliminary Scientific examination were ing conducted. With Mr. Gamble, Mr. Gibson (chairman, Pharmaceutical gotiating Committee) and the secretary, had met members of the Londonderry emists' Association and a discussion on e work of the Council had taken place. quests had been made for a post-gradu- course and lectures and Mr. Cowzer d he hoped that it might be possible them to be arranged.

Thanks were expressed to Mr. J. R. iler, who had presented a book to the ciety's library.

A letter was received from the Ministry of Home Affairs regarding the Penicillin Act, 1947. It was agreed that the attention of members and associates should be drawn to the provisions of the Act and that the public should be informed that penicillin and its preparations might be obtained only on the prescription of an authorised person.

The recommendations of the Education Committee included the granting of certificates of apprenticeship to the following: Eileen C. Casey, Londonderry, Rose P. Cunningham, Loughgall, Margaret E. Davis, Belfast, Patrick J. Devlin, Castledawson, Frederick A. Dundee, Belfast, Celine M. Gorman, Newry, Robert Graham, Donemana, Anne P. Hutton, Londonderry, Margaret M. McCann, Moy, George C. A. McGowan, Portstewart, Esward O'Hare, Londonderry, and Alfred J. C. Richardson, Portadown.

For the Society's December examinations it was stated that fifty-five students had been accepted for the Preliminary Scientific examination and fifty-three for the Final Qualifying examination. The examinations are to be held during week commencing December 6.

Applications for certificates of apprenticeship from two students who had not passed in one of the compulsory subjects at the Ministry of Education Senior Certificate examination were refused. It was decided that the next meeting of the Council should be held on December 10.

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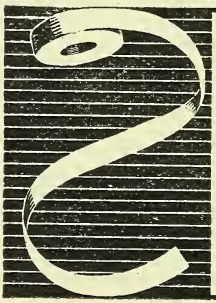

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VOL. CL DECEMBER 4, 1948 No. 3589

Down to Earth

THE Conference of representatives of Pharmaceutical Committees which met in London on November 24 (see *C. & D.*, November 27, p. 706, and this week's issue, p. 730), may prove to have been the conference-to-end-conferences—at least as far as the particular matters before the meeting are concerned. There was a prevalent feeling, which revealed itself in some of the questions, that nothing much could be done by those present beyond accepting accomplished facts and rubber-stamping executive decisions.

The justification of that frame of mind was more apparent than real, and whoever went away with an impression of a wasted day we do not think it was the Contractors' Committee or the N.P.U. Executive. Nor, for that matter, could the platform be held responsible for the fact that decisions taken at previous conferences had been rendered nugatory by events — the blame, if any, must be laid at the door of the authorities who did not disclose the full extent of the congestion in pricing offices. The "minor" matters—minor only so far as the agenda was concerned—were soon cleared off. There was a challenge to the wisdom of the secretariat in placing them first on the agenda, but—fortunately for any decisions upon them — the challenge was rejected. By ratifying the recommendations of the platform on the subject of advertising of dispensing services, recommendations that were themselves a ratification of the policy of the Pharmaceutical Society in this matter, the contractors have shown themselves solid (a resolution to permit "straightforward" Press announcements was overwhelmingly defeated) on an important matter of principle any weakening upon which might have had an unfortunate bearing on an unsettled issue still before the Statutory Committee. The decision to leave to private arrangements between employee and employer the matter of payments to staff for time worked on rota duties was a foregone conclusion. If delegates had been in any mind to approve a generalised arrangement with the trade union side of the Joint Industrial Council, a revelation by Mr. Heseltine might have opened their eyes to the snags. Mr. Heseltine had pointedly asked the trade union spokesmen whether they were seeking payment in addition to compensatory time, and whether, if more than one person were employed upon the rota work, they considered both should be paid: the answer to both questions was "Yes." As it turned out, there was no need to point the moral. Representatives were in favour of maintaining their freedom of association and action, even at a sacrifice of potential financial assistance from the Government, and agreed to leave the detail to the Contractors' Committee; they welcomed the news (given by Mr. Mallinson) that no part of any levy would be demanded towards the running of a checking bureau.

Urgent Fees

"Urgent" fees aroused rather more controversy. Mr. Mallinson was able to demonstrate that account had been taken by the pricing bureaux of "urgent" markings on scripts, though not in the way anticipated. The general average payment had benefited, although the instruction to chemists to place urgent prescriptions in the over-5s. bundle had been stultified. If the Conference insisted on approaches being made to the Ministry to secure full pricing of such prescriptions, Mr. Mallinson showed himself more than ready to meet their wishes, and much encouraged by the mandate given him.

Indeed, the most valuable outcomes of the Conference were, first, this new man-

date and, secondly, a renewal of the insistence on ultimate full pricing of all prescriptions. That insistence was not allowed to impede ratification of the action of the Contractors' Committee in accepting (and, in fact, demanding) averaging for the rest of 1948, or acceptance in principle of the N.P.U's proposals for pricing in 1949. To that extent the Conference was a "rubber-stamp" conference. What it did do was (a) to set a definite time limit after which full pricing would be expected, and (b) to ventilate various proposals (some of them very valuable ones) for improving the efficiency of the pricing system so that it will in due time overtake the arrears. Since pharmacists are today represented on the Central Pricing Committee, it may be said that they have now a stake in what was formerly a purely departmental matter, and no doubt Mr. Heseltine, who showed himself fully alive to his opportunities as well as his responsibilities as chairman of that Committee, will have documented all the recommendations put forward.

"Down to earth" seems now to summarise the situation all round. No illusions about the capacity of the present bureaux are held by the Ministry, the Contractors' Committee or the representatives of Pharmaceutical Committees. The way is clear for hard work and new ideas to get things put right by December 1949.

Pest-control Risks

While the subject of pest-control opens up an ever-widening field, particularly in the manufacture of fine chemicals, as was demonstrated in a recent series of articles in these columns, manufacturers should realise the possible danger to man, his animals, and crops, of the indiscriminate use of insecticidal compounds before their toxicity has been fully investigated. The extent of the danger is apparent from the fact that already several thousand compounds with insecticidal activity are known to exist, and that "when compounds are poisonous to insects they are usually also poisonous to man." The compounds are potentially dangerous not only to persons who come into direct contact with them but also to any who may ingest the residues and possibly the degradation products. They may even become incorporate in plant tissues, a fact that renders the prol lem of ingestion particularly insidious. I this connection the dangers arising fro the "appalling lack of factual data" co cerning the effect of the continued inge tion of insecticides with food, mentione in a recent statement by the America Council on Foods and Nutrition ("Jou nal of the American Medical Association August 28, p. 1603), is significant. If t supply and use of insecticides were develop indiscriminately there might w be a danger, as is there pointed out, mass poisoning offsetting the potenti benefits of the new agents. The safegua to the public must be a continued que for knowledge, coupled with extreme ca tion in applying it.

Reprints of the articles on "Insects a Insecticides," re-published as a booklet, a in preparation. These will be available application. The number is limited.

Recent Trade Decontrols

The relaxation of controls on a furth list of commodities, machinery and pla announced recently by Mr. Harold Wils (President of the Board of Trade) and M G. R. Strauss (Minister of Supply) we the outcome of a series of decontr measures initiated in February, when special examiner was appointed to revie the immense control structure that h arisen since 1939. The present decontr programme is to be further intensified the near future.

The Board of Trade relaxations fall in three categories. First, where supplies British manufactured materials have be increasing during the past year (for e ample, in a number of chemicals) and ha reached a state of equilibrium with d mand, there is now no need to contr their distribution. The second type of co trol relaxed is that over the manufactu of a range of consumer goods (toilet pr parations, decontrolled in July, are an e ample), while the third change is the r turn to private trade of the purchase some raw materials, such as occurred pyrethrum flowers in April.

The Ministry of Supply has removed large number of machines, plant and a

ances from statutory control, including tling and tabletting machinery, plant d in the manufacture of soap and toilet parations, emulsifying machinery, filtra- n plant, glass-making and working mach- ry, labelling machinery, etc.

It should be noted, lest any should troy permit forms too precipitately, t the scheme of vacuum flask control ains in operation until December 31. til that date all the Ministries concerned l issue permits as hitherto; the bulk is- to be made by Thermos (1925), Ltd., the Ministries on December 1 will be rprinted in red "Valid until February 1949." The company will redeem per- s in multiples of fifty until that date.

Maternity and Welfare Progress

SPONSIBILITY for maternity and child fare services in England and Wales now s with the 146 local health authorities o provide maternity and child wel- e clinics, midwives, health visitors, dis- t nurses and domestic helps.

In 1900 the infant mortality rate (deaths the first year of life) in England and les was 154 per thousand registered live ths. In 1919, when the Ministry of alth was established, it had fallen to per thousand registered live births, ing to improvements in social conditions erally and to early work in the field maternity and child welfare by volun- y organisations and local authorities. By 39 the rate was nearly halved and there been a subsequent decrease to forty- per thousand registered live births in 44 and forty-one in 1947.

By the end of 1947 there were nearly 00 infant welfare centres open, and dur- the year there were more than 627,000 ldren under one year of age who atten- d them for the first time. 715,000 women ended ante-natal clinics or received ante- al care by arrangement with their eral practitioners.

Further evidence of the benefits of ant welfare work is given by a report the dental condition of children in Lon- n schools recently published by Lady ellanby and Dr. Helen Mellanby ("Bri- n Medical Journal," August 28, p. 409). e report was in continuation of a series covering the period 1929-47. The dental condition of five-year-old children attending London County Council Schools in 1947 was compared with that of groups examined in 1929, 1943 and 1945. A progressive increase was noted in the proportion of caries-free or almost caries-free children, and the improvement is attributed to the increased calcifying properties of the diet, particularly that of pregnant and nursing women, infants and young children.

What is Curry Powder?

MAKERS of curry powder have long differed over what constitutes a good formula—a question that may in part become resolved if action recommended by the Food Standards Committee (see p. 718) is taken. For our part, we have always tried to remain neutral in that culinary battle. With exemplary impartiality we have held ("Pharmaceutical Formulas," Vol. II, p. 437) that "every maker of curry powder considers his own article the only original condiment," and included no fewer than twenty-three formulas "which have come from Hindu cooks, East Indian missionaries and military heroes—men who have suffered for their country in curry as well as in warfare." How true—do not the complexions of many of them bear testimony to their valour?

None of the twenty-three recipes, it may be mentioned, contains any "farinaceous material" (of which the Committee proposes to allow up to 15 per cent.) and in excluding such ingredients we carry with us, we feel sure, a majority of those who truly favour curry. The connoisseur will also applaud our guarded but discriminating indication of colour—that the powder should be "brownish with a yellow tinge, rather than a pure yellow colour," and our guiding principle in selection— "Pungency is a matter of cayenne pepper . . . preference is given to those powders containing cardamoms and cumin." In a general way, the Committee confirms our discrimination. "Spices," their report states, "should constitute not less than eighty-five per cent. of the powder." Let us leave it at that, and continue to give latitude to the cooks and colonels. Nobody wants nationalised curry powder.

PENICILLIN PREPARATIONS OF THE 1948 B.P.

By R. E. M. Davies, B.Pharm., Ph.C., and J. Barclay Hough, M.P.S.

BEFORE examining in detail the penicillin preparations of the B.P., 1948, it may be well to pass in review some of the events which preceded their inclusion in that publication. In March 1944 the Penicillin Clinical Trials Committee drew up a set of instructions for the use of penicillin in the treatment of war wounds, and published them in Medical Research Council War Memorandum No. 12 (H.M. Stationery Office). The formulas given (for penicillin creams and powders) were regarded at the time as semi-official. The preparations lacked pharmaceutical elegance, however, and criticisms were put forward that they were crude and incomplete, and that full use had not been made of expert pharmaceutical assistance. At that time the use of penicillin in Britain was limited to the Services and to certain research clinics and hospitals. Production was far short of demands and, to avoid wastage, the drug was used only in infections caused by organisms proved by bacteriological test to be penicillin-sensitive. It was left to individual pharmacists to devise their own formulas for penicillin preparations. The result was a considerable lack of uniformity, for even the strengths of the preparations varied from one hospital to another. On June 1, 1946, penicillin was released to the public through the ordinary pharmaceutical channels, but the Control of Penicillin (No. 1) Order, 1946, which came into force on that date, laid down conditions of distribution. With scarcely any warning, retail pharmacists became expected to supply penicillin preparations for which no official formulas existed. The position that threatened rapidly to become chaotic eased considerably when the London, Edinburgh, Belfast and Dublin "Gazettes" of June 1946 gave notice of an amendment to the Pharmacopœia, bringing penicillin and a number of its preparations within the B.P., 1932.

The official formulas have been criticised on more than one occasion, but at least they provided working standards to which pharmacists could refer. The purpose of the present review is to examine the official preparations as modified by any changes effected by publication of the 1948 Pharmacopœia, which retains the original preparations.

Owing to the extreme instability of penicillin in aqueous solution, it soon became obvious that the injection would have to prepared extemporaneously by practisi pharmacists. Little wonder, therefore, th the factors underlying the monograph rections have been, and remain, the subj of much investigation and interest. Abc a year after the inclusion of Injection Penicillin in the 1932 pharmacopœia, ports appeared in the medical Press [1] of creasing incidence of strains of *S. pyoger* grossly resistant to penicillin, and the M istry of Health directed that the amou of penicillin administered should be su cient to produce a bactericidal concent tion in the infected focus. Routine tre ment now consists of initial doses of t order of 250,000 units, followed by peated doses of 50-100,000 units. A mc ern treatment is reflected in the pharma pœial direction that, where a prescrit omits to state the strengh required, inj tion of penicillin containing 50,000 un per mill shall be dispensed.

Potency of Penicillin in Injections

A limitation on the potency of the pe cillin to be used in preparing the injecti (to not less than 900 units per mgm.) w suspended in 1946 to enable low-poten stocks to be used up. The concession cancelled in the new B.P. With the pu material now readily available the dang of pyrexia, urticaria and nodule produ tion at the site of injection, which som times occurred with impure samples, are duced. Two factors influencing the to city of the injection are the concentrati and purity of the penicillin used. Wi increased concentration resulting from creased dosage, the solvent has be changed from Physiological Solution Sodium Chloride to Water for Injectic By the modification, however, an appro mately isotonic injection of the offic strength (50,000 units per mil) is form only when penicillin of minimum puri (900 units per mgm.) is used. Any crease in the purity of the penicillin at t strength would result in the formation of hypotonic solution. Thus, Sargent [2], h calculated that, using penicillin-G of puri 1,667 units per mgm., an approximately is tonic solution is obtained with a concentr tion of 90,000 units per mil (assuming th ionisation of penicillin-G sodium salt is co plete). Variation in the concentration the injection above or below 50,000 un

mil may result in the production of a pertonic or hypotonic solution.

n the original monograph 0.1 per cent. orocresol was directed to be used as a teriostat when multiple-dose injection itions were dispensed. A number of rkers [3] [4] [6], however, remarked on a udiness or turbidity in such solutions on rage, and although McEwan and Macrran [5] noticed no such change in a nparatively dilute solution of white peni-in, 0.5 per cent. phenol was frequently gested as an alternative. Johnson and rigo [4], working with sterile solutions crystalline sodium penicillin-G contain- 50,000 units per mil in (a) 0.9 per t. saline solution, and (b) saline solu-n with 0.1 per cent. chlorocresol, found t the chlorocresol solution produced a vy deposit, starting within twenty-four irs at room temperature, whilst no tur-ity was noticed until the seventh day storage in a similar solution containing per cent. phenol instead of chlorocresol. e B.P. now sanctions the use of 0.5 per-t. w/v phenol as bacteriostat in multi--dose containers of the injection.

According to Denston [6] solutions of im-re samples of penicillin are more stable n solutions of pure samples, and it is ought that this is due to the buffering ect of the impurities present. Smith [7], ted the stabilising effect of sodium hexa-taphosphate on penicillin solutions. her workers [4] [8] [9] [10], investigating buffering effect of phosphate mixtures h solutions of sodium penicillin, found t the phosphate exerted a protective ac-n—independent of buffer effect—against s of potency. Bearing in mind the her rate of deterioration of concentrated utions [7] [14] it may be found advisable the future to use a phosphate-buffered ution for injection purposes.

ly Injection of Penicillin

The oily injection of penicillin has been mulated with the object of securing pro-nged absorption of penicillin from a sin-injection, thus prolonging its presence effective concentration in the blood se-m. Because of the already relatively gh concentration of penicillin in the oily jection, the instruction as to the potency the penicillin to be used in its prepara-on was not amended by the 1946 notice. in the other anhydrous penicillin pre-rations, the calcium salt is to be used.

Much that is controversial has been pub-hed regarding the relative merits of various formulas for an oily injection, but investigators have been hampered by lack of explanation of the mechanism of prolonging the action. It was originally suggested that diffusion of penicillin was impeded by inflammation of the injected tissues following irritation caused by the beeswax — a view not confirmed by later work, which suggests that viscosity is the factor that decides rate of absorption. The suggestion is important in view of the claims made for preparations of ethyl-oleate and beeswax type, the greater fluidity of which undoubtedly facilitates their manipulation in the syringe. In a paper confirming the value of arachis oil and beeswax formula (first proposed by Romansky and Rittman [12], Ungar [13], states that the value of a suspension is a function of the viscosity, which is, in turn, influenced by (a) the proportion of beeswax to oil, (b) the viscosity of the oil, and (c) the concentration of penicillin in suspension. He suggests that the amount of beeswax should be as high as can be safely tolerated, and that the concentration of penicillin should be increased. On the other hand, Berger [14], found little difference in the serum concentrations obtained after intramuscular injection of, first, penicillin in arachis oil with beeswax, and, secondly, penicillin in ethyl oleate with beeswax, and that variations in the concentration of beeswax within the range 3.8 to 6 per cent. did not markedly influence the effectiveness of the preparations. The new pharmacopœia, taking these facts into consideration, allows for the use of arachis oil or ethyl oleate in preparing the injection; the injection with arachis oil is to be dispensed unless otherwise stated.

Another complicating factor in ascertaining the value of a preparation is the wide variation noted by Kirby and others [15], in the rates of absorption and excretion of penicillin, and the difficulty of estimating small concentrations of penicillin in blood with any degree of accuracy. In an attempt to overcome these obstacles Chantrill and Gurd [16], investigated the survival rates of mice treated with various penicillin preparations and subsequently infected with streptococci. Their findings confirm the greater efficiency of arachis oil and beeswax preparations over the ethyl oleate and beeswax injections, and lend support to Ungar's viscosity theory. Cannon, Lindstrom and Ospeek [17], found that, out of a wide range of vehicles tested, hydrogenated cotton seed oil (melting-point 40° C) and a peanut-oil and beeswax mixture

were of greatest value in maintaining serum concentrations.

An investigation recently concluded by Dowling and others [18], indicates that, other factors being equal, preparations of crystalline penicillin in oily injections are superior to those containing the amorphous variety in maintaining a therapeutic concentration of penicillin in the blood (the potency of the original amorphous material, however, was not stated). Similarly, preparations containing penicillin of large particle size are more effective than those containing small particles, and viscous preparations are superior to mobile. It is, as yet, too early to decide whether a revised formula would be an advantage, though there are grounds for adopting the American practice of increasing the concentration of penicillin in the injection. Using aqueous penicillin injections, a simple method of producing results comparable with those obtained from oily suspensions has been reported by Carlinfanti and Morra [19].

Penicillin Creams and Ointment

Topical applications of penicillin are rightly stated to have the advantages of economy, greater concentration at the site of infection, prolonged effect of a single dose, quicker response, and longer contact with the tissues than aqueous solutions. There has been much discussion as to the relative efficacy of the aqueous and oily preparations of penicillin for local use, and a number of contradictory statements have been made. On one hand, it has been stated [21], that the ointment is suitable for and effective in all superficial skin infections and minor wounds. On the other hand, Neurath and others [22], who examined bases containing low concentrations of penicillin, found that the highest anti-bacterial activity was possessed by oil-in-water emulsified creams, and that bases of the ointment-of-wool alcohols type, with and without water, gave negative results. Spalton [23], suggests that further work may be desirable to establish that the stability of penicillin ointment, B.P., is not achieved at the sacrifice of some measure of therapeutic efficiency.

The original monographs for penicillin cream were unusual in that a proprietary preparation (Lanette wax SX) was recommended as the emulsifier. Difficulties in obtaining the raw materials led to the official recognition of Lanette wax SX, thereby creating a precedent, which, as Berry [24] remarked, could not be regarde as entirely satisfactory in the absence corresponding official standards. The pr blem is solved in the 1948 B.P. by inclusic of an official Emulsifying Wax (Ce Emulsificans, B.P.). To meet the needs individual practitioners, latitude is allow in the proportion of hard and liquid para fins and white soft paraffin may be su stituted in order to produce a cream suitable properties. A fluid preparation sometimes preferred for pouring direct into cavities or for packing wounds.

In emulsions prepared with cera emu sificans, B.P. (or indeed with any emul fier of this type), the presence of the su phated alcohol leads to development acidity (from partial hydrolysis) during t sterilisation process. The fact was so noted and various suggestions have be put forward for overcoming the difficult Hough, Pryce and Martin [25], recor mend that the base should be autoclav for not longer than thirty minutes at 11 C, and the cream must therefore be ster ised in batches of not more that 100 gr Other workers have suggested the inclusi of a buffer. Hailstone [26], mentions a mi ture of boric acid, 2 parts, and borax, part, in the proportion of 1 per cent. the quantity of Lanette wax SX used. cream prepared in that way gave a *p*H over 7.6 after sterilisation at 15 lb. pressu for one hour. A disadvantage of a bori acid/borax buffer is its reported toxicity [2 when applied to wounds, and a phospha buffer has been suggested by Hailstone [2 and Pedersen [28], as an alternative. Ax [29], formulated cream bases containi Lanette wax SX and Bentonite, and fou that the latter enabled a cream to be ster ised with little alteration in *p*H, and counter a rise in acidity resulting fro the hydrolysis of Lanette wax SX. T stability of the cream is about the same that of the aqueous injection.

The pharmacopœial ointment of penic lin is an anhydrous preparation containi penicillin (calcium salt) in ointment of wo alcohols, previously heated at 110° C f one hour to drive off contained moistur Berry [30], has suggested that the product stable at room temperature for 6-9 month

Penicillin ointment for the eye is of t usual type of official oculenta, except th water is omitted.

Meara [31], reported three cases of sk sensitivity to penicillin preparations for e ternal use. In none of the cases was pen cillin alone incriminated as the cause.

zenges of Penicillin

Prior to publication of the official mono-
.ph, a glycogelatin pastille was the most
ıeral method of administering penic llin
local treatment of mouth infections. The
h water content of the preparations,
vever, contributed to instability in the
ıg, while the short time taken by the
tilles to dissolve was undesirable from
h medical and economic standpoints.
some quarters, however [34], the soft pas-
cs are preferred to hard-base prepara-
ns, which are considered unsafe owing
the danger of stomatitis. Some latitude
aliowed in the composition of the official
enge. The basis is named as sucrose or
tose, or a mixture of the two with suit-
e binding agents. Each lozenge weighs
out 1 gm., and the monograph pre-
ibes that, if the strength is not stated,
enges containing 500 units of penicillin
lcium salt) in each shall be dispensed or
plied. That rigidly defined standard
s been criticised as impossible in bulk
ınufacture. An obvious revision is the
cification of prescribed tolerances for the
nicillin content. The official mono-
ıph states that lozenges of penicillin must
stored in airtight containers at a tem-
rature below 15° C. Barnard and Hart-
[33], prepared lozenges of penicillin to
ntain 500 international units of penicil-
(calcium salt) per lozenge, and found
significant loss of penicillin content dur-
; twelve months' storage at ordinary tem-
ratures in screw-capped jars, with waxed-
ard liners in the lids. To prevent deteri-
ation through contact with moisture, the
enges should be dispensed in unbroken
ckages. Experiment by Webster and
ey [34], has shown that the antibiotic is
t appreciably affected by dilution with
iva, and, if allowed to dissolve slowly, the
zenge should normally remain in the
outh for not less than forty minutes.
action is purely local.

In spite of diverging views on details,
e official penicillin preparations have
en found generally satisfactory. The
ıarmacopœia Commission are to be con-
atulated on successfully accomplishing a
sk imposed by conditions no less abnormal
an they were difficult.

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ULSTER CHEMISTS' ASSOCIATION

Annual Meeting

At the annual meeting of the Ulster Chemists' Association, held in Belfast on November 17, Mr. J. C. Acheson (retiring president) described the year as one of great activity in which membership had been raised to a record figure. Although, during the year, some trade restrictions had been removed and some items had been decontrolled or freed from tax, he thought the Government could still go a long way in alleviating tax burdens. It was unfortunate that the Early Closing Order in Belfast had come to the fore at the same time as the deliberations on the National Health Service, for chemists were reluctant to start a rota service without knowing whether or not they were to be paid for it. The Committee had been in contact with county medical officers of health and he was hopeful that at least some of the distribution of baby foods, vitamin preparations, dressings, etc., would be put through chemists instead of through clinics and welfare centres. He trusted that members, especially from the counties, would try to devise schemes suitable to themselves and to the public. A central committee was being formed to consider a scheme that would be uniform.

Burden on Committee

The health services, said Mr. Acheson, were now established and working fairly smoothly, although on a temporary payment basis. The Pharmaceutical Negotiating Committee was composed in great part of U.C.A. executive members, on whom an additional burden had therefore been thrown. They had sometimes to meet three or four times a week. He added a tribute to the work of the secretary (Miss A. E. Strachan) and her assistant (Mrs. E. S. Easton).

The executive committee's report recorded that the membership had risen from 506 to 532, and that the financial position was satisfactory. Three new chemists' associations had been formed—East Belfast, Lurgan and Dungannon. Protest had been made against the introduction of the Statistics of Trade Bill, and representations had been made concerning purchase tax on drugs and medicines, rebate of purchase tax on breakages, supplementary petrol, and sales at welfare centres. During the year 5,518 price changes and eighty-four notices had been sent to members. Because of the increased rates of purchase tax announced in November 1947, the nev "blue list" had been rendered out-of-dat immediately after its distribution. So man alterations in prices and tax had followe that the issue of a new list could not b contemplated until prices became mor stabilised. Rota arrangements in Belfa had been held in abeyance pending fu ther negotiations with the Ministry. Di satisfaction at the delay in National Healt Service payments persisted. A scheme c pricing by averaging for the months c February to June had been put forwar but did not appear to have had the desire effect. It was hoped that the pricin bureau would try and speed up paymen but the increase in prescriptions was s heavy that more staff had to be trained.

Annual Subscription Agreed

On the motion of Mr. H. G. Cami bell, seconded by Mr. J. Caldwell, th report was adopted. The statement c the treasurer (Mr. W. J. Rankin) was als adopted. Mr. Rankin proposed and Mi W. H. Boyd seconded that the bas annual subscription for the current yea should be fixed at £2 2s., and that th subscription for registered druggists an branch shops should be £1 1s. (both in clusive of annual subscription to the Chc mists Federation). The proposal wa agreed. Mr. H. S. Anderson was formall elected to fill a vacancy on the executiv committee (the other members are Mi C. E. Culbert, Messrs. A. T. Hardy, A. I Johnston, James McDowell, R. A McEwan, W. R. McNabb, E. A. Riche and Walter C. Tate).

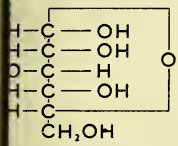
Problems for Discussion

After discussion it was decided to tak up with the Ministry the maximum prof on insulin, liver preparations and pen cillin, payment for rota duty and paymer of late fee for urgent medicines dispense after business hours. It was also decide that the leading manufacturers should b asked to mark the strength of tablets o labels in type at least as large as that use for the manufacturers' name. The President stated that some country member had asked for the annual meeting to b held on other than Wednesday afternoon but, after consideration, it was decide that no change should be made. A vote o thanks to the president was passed on th motion of Messrs. H. H. Cowzer (presi dent, Pharmaceutical Society of Norther Ireland), and J. Caldwell.

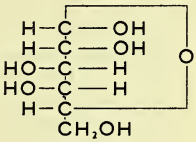
ALGINATES IN SURGERY

By. C. W. Bonniksen, B.Sc., A.R.I.C.

ICH attention is being given at the pre-t time to the behaviour and applications polyuronides such as oxycellulose, alginic d (see, for example, paragraph on ural Surgery Dressings" below), and tic acid in surgery, and it may be of erest to recall how similar in chemical stitution these substances are. Oxycel-ose is related to glucose, pectin to galac-e, and alginic acid to mannose. The ee sugars may be depicted as follows:—

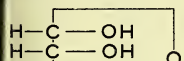


d-glucose

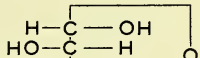


d-galactose

Cellulose is a complex of glucose resi-es, a glucose molecule linked to another cose molecule, and that to a third, and on up to some hundreds of glucose resi-s, in the form of a long chain. Here d there in the long chain is to be found alcoholic group which, by natural pro-ses or as a result of methods used in isolation and purification of cellulose, s become oxidised to a carboxyl group. curring alone it would be called glu-ronic acid, the structure of which is picted below:—



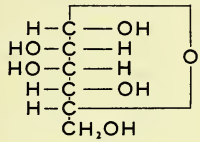
glucuronic acid



mannuronic acid

Only a few uronic acid units occur in llulose, but they are sufficient to impart stinct acidic properties to the compound. neir numbers can be augmented by the e of mild oxidising agents until half of e glucose residues have been converted glucuronic asid residues. The products, scribed as oxycelluloses, form salts with e alkalis that swell to varying degrees ith water and ultimately disperse. Pectic id is similarly a complex of galacturonic id residues, commercial preparations from trus fruits being partially methylated.

Alginic acid is a polymannuronic acid, nd probably occurs in nature as a mixture its salts. The molecular chain contains uronic acid residues but no mannose residues, giving to alginic acid a definiteness not possessed by oxycellulose. Alginic acid forms a series of well-defined salts with inorganic and organic bases. Sodium alginic and triethanolamine alginate, for example, are articles of commerce, while the calcium salt is produced in large quantities in the form of fine filaments, which may be spun and woven in the same way as rayon. Calcium alginate fabrics possess a high strength and exhibit the characteristic properties of alginates, being, in particular, hæmostatic and absorbable in body tissues. The fibres of the resulting gauze-like materials can be chemically treated so as to provide grades of fabric or wool of different solubility rates, each type being favoured for specific operative procedures. Alginates possess a neutral reaction, and are, therefore, compatible with antibiotics and chemotherapeutic agents, such as penicillin and the sulphonamides. Oxycellulose, on the other hand, which is of an indefinite composition, has a distinctly acid reaction, a fact that limits the number of drugs with which it is compatible. Oxycellulose rapidly inactivates penicillin.



d-mannose

Aural Surgery Dressings

After trials in aural surgery, using four grades of alginate ribbon gauze and wool, Passe and Blaine ("Lancet," October 23, p. 651) conclude that alginate dressing is "by far the most satisfactory for the aural surgeon." Advantages include that it can be left *in situ* for three to four weeks, prevents excessive formation of granulation tissue, and that it obviates the patient's fear and discomfort of repeated dressings. Calcium alginate is slowly absorbable, hæmostatic, and a poor culture medium for micro-organisms. Alginates containing more sodium than calcium ions are more quickly absorbed. If dipped in saline, etc., before use the dressings become "truly plastic." Alginate dressings may be removed by gentle withdrawal or by solution in an aqueous solvent. While sulphadiazine or an antiseptic may be added to the dressings the material is a deterrent to bacterial growth.

DISCUSSION ON EMPLOYEE PHARMACISTS

SPEAKING on "The Future of the Employee Pharmacist in the Profession" at a recent meeting of the Harrow Branch of the Pharmaceutical Society, Mr. F. H. Connelly, presenting the views of employees, said that the future of employee pharmacists depended almost entirely on the use made of their pharmaceutical ability. He therefore welcomed the National Health Service and the progressive educational policy of the Society. Present salaries were paid not in recognition of professional standing but merely because of acute labour shortage. An unemployment figure of 2 to 3 per cent. had forced wages down to £3 per week in pre-war days, while the present shortage of about 4 per cent. had raised salaries to four times their pre-war level. Mr. Connelly described the rates of the National Joint Industrial Council for Retail Pharmacy as "farcical and lacking in reality." By "torpedoing" the Joint Committee, the National Pharmaceutical Union, he said, had placed the management of pharmaceutical affairs out of the hands of the pharmacist; the largest section of the profession had been left without any effective voice in the administration of the pharmaceutical services.

Mr. Connelly went on to say that pharmacy had many employee organisations but too little employee organisation. A trade union, backed by large financial resources and negotiating experience, was the best method of representing the interests of employee pharmacists. He appealed to employee members of the Society to take a more active part in their local branches. Employees would have to fight for representation on the Council of the Society and on administrative councils at all levels; they would also have to demand drastic revision of the N.J.I.C. rates.

An Employer's Viewpoint

MR. R. GOODE, presenting the employers' point of view, said the success of the N.P.U. as an organisation for pharmacists had been the result of its many activities. Self-employed pharmacists knew what the N.P.U. was doing for them; employee organisations, on the other hand, had little to show. He did not agree that a large trade union with a minute pharmaceutical membership was the most suitable organisation to represent the interests of pharmacists. A strong determination on the part of employees to become self-employed pharmacists would do much to safegua their future. Mr. Goode thought that t opportunities for individual ownership we greater now than ever before. Any lowe ing of the value of the employee wou inevitably result in lowering the standa for all pharmacists, and, for this reaso he opposed the present N.J.I.C. rat

J.I.C. Rates Inadequate

They were totally inadequate and the was no reason why any pharmacist shou have to accept a salary of less than £1,0 per year. He advised employee pharm cists to form a joint council of all existi employee organisations to represent the i terests of all their members effectively. M Goode expressed strong disapproval of t Society's educational policy. It would wrong to assume that an academic qua fication would necessarily mean better r muneration, he said. Retail pharmacy d pended for its income on the confiden of the public. University training counte little with the man in the street and wa in fact, liable to create a snobbish an superior attitude most unsuitable for r tail pharmaceutical practice. The craft pharmacy should be taught where it w practised, and a three years' apprenticeshi was necessary to acquire the essentials.

Following a lengthy discussion, M H. W. TOMSKI (secretary), speaking for t majority of the Branch committee, urge that a group should be formed comprisin all employee pharmacists within the are of the branch and the region of the Mi dlesex Pharmaceutical Committee. Aft the branch meeting, about forty member elected a temporary committee to defin the scope of the group and formulate i constitution.

Assay of Digitoxin. — A colorimetri method for the detection and assay of digi toxin, described by Warren, Howland an Green ("Journal of the American Phar maceutical Association, Scientific Edition, May 1948), is based upon the reaction be tween digitoxin and a solution of sodiu β-naphthoquinone-4-sulphonate, giving purple colour. Addition of acetic aci changes the colour to a yellow, which fade only 1 per cent. in two hours. Detail are given of a procedure that requires n special apparatus and can be adapted t any colorimeter or spectrophotometer. Th results of actual assays on digitoxin in pow der and tablet form are given.

CORRESPONDENCE

Commercial Travellers' Schools

SIR,—May I trespass on your space to ke a final appeal on behalf of the yal Commercial Travellers' Schools at ner. I feel that many friends would ly acknowledge that they have been ndsomely helped in their businesses by ir commercial traveller friends, and ght like to show appreciation by a dona- n to a cause very dear to the heart of ry "commercial." Donations should sent to me at St. Ermin's, Caxton use, Westminster.

Yours faithfully,

London, S.W.1. G. HERBERT DAVIES
(*President of* 1948 *Appeal*).

How to Price Promptly

SIR,—If "urgent" prescriptions are not ting special attention (see *C. & D.*, vember 27, p. 706) maybe branches of National Pharmaceutical Union will together to consider means of break- the pricing deadlock. Mr. Mallinson s said that, if we insist on full pricing, Government may return the job of cing to the chemist. That would ease situation and enable a number of new cing offices to be started. Quite a num- r of semi-retired pharmacists might wel- me a job as part-time superintendent. actically every seaside resort in Britain s a shortage of light industry and it uld be easy to establish small pricing its all around the coast that could be ntrolled by an executive committee of local N.P.U. branch. Furthermore, in self-operated scheme, local chemists uld readily sort out scripts into doctor der and endorse them properly. Few do is at present because everyone thinks they"—other people—are paid to do it.

Yours faithfully,

Clacton-on-Sea. D. H. R. MOODY.

SIR,—I have looked in vain for any ally constructive suggestions to improve e payment of chemists' accounts and am nazed that the obvious solution of this roblem does not appear to have occurred any of the parties most intimately con- rned. The most pressing problem is to evise a scheme whereby the retail che- ist can be assured of an immediate mini- um payment on account of services endered. In some areas the practice is pparently to divide prescriptions into two pproximate groups (i.e., below and above 2s. 6d.). We may take it that the below 2s. 6d. group will average not less than 2s. For the purpose of the plan I am put- ting forward, we may take an arbitrary figure of, say, 3s., as a preliminary aver- age for the above-2s. 6d. group. On the first day of each month let the chemist present to his banker a sealed bundle (addressed to the appropriate pricing bureau, fully stamped for transmission by registered post and bearing a duplicate form of declaration of contents) containing the prescriptions handled by him during the preceding month. Simultaneously, let him present to the banker a counterpart of the declaration. The banker affixes his stamp to both parts of the declaration and

(a) Arranges for the postage of the appropriate package.

(b) Credits the account of the chemist with the sum declared (i.e., the number of under-2s. 6d. prescriptions multiplied by 2s., plus the number of over-2s. 6d. pre- scriptions multiplied by 3s.). At the end of five months, during which time the pricing bureau will, surely, have had ample time to deal with all prescriptions in detail (e.g., on June 30 in respect of January prescriptions), the pricing bureau should be in a position to make whatever adjust- ments are necessary, and to mail cheque, including five months' interest at, say, 3 per cent. in respect of any balance due to the chemist, or to issue a demand carry- ing five months' interest at 3 per cent. in the unlikely event of any excess having been paid to the chemist by the basic plan five months' previously. The procedure could be as simple as that.

For TRINITY LABORATORIES, LTD.,
Blackburn. IVAN JOLLIFFE.

All-British Decimals

SIR, — Difficulties over "Weights and Measures" are again to the fore (see *C. & D.*, November 27, p. 693). I enclose the remedy. Fifty-odd years ago I used a burette stamped with grain measures. This, of course, is not now used, but, if my deci- mal system had been in existence, there would have been no need for continental weights or measures.

Yours faithfully,

Penge. CHARLES PHILIP.

[Our correspondent encloses a pamphlet "Why not adopt the all-British Decimal System" (based on a lb. of 10,000 grains, a pint of 10,000 grain-measures, and a "gold" of 1,000 farthings)].

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade

28 Essex Street, W.C.2, Dec. 1

THE export call for PHARMACEUTICAL and FINE CHEMICALS continues brisk and a moderately good trade is being done on home-trade account. Prices are little changed on the week. Makers of AMPHETAMINE, however, have slightly reduced prices of this product and also of the SULPHATE. Quotations for *d*-AMPHETAMINE are unchanged. Synthetic CAMPHOR, production of which ceased during the war, is again being manufactured in this country. The product complies with pharmacopœial requirements, and prices to wholesalers are 6s. 6d. for 1-cwt. lots and 6s. 9d. per lb. for 28-lb. The Board of Trade has given notice of the decontrol from December 31 of METHYLATED SPIRIT and a number of SOLVENTS (see p. 717). The products, with the exception of AMYL ALCOHOL and PARAFORMALDEHYDE, have been under Statutory control of acquisition, disposal, use and price since September 1939. Amyl alcohol was brought under control of acquisition, disposal and use (but not of price) in July 1940 and paraformaldehyde similarly in February 1942. The shortage of supplies which has persisted throughout has now ceased.

Home-trade for BOTANICAL DRUGS has been restricted in volume but it is understood, however, that a moderately good business has been done for export in IPECACUANHA, ERGOT and Kombé STROPHANTHUS. Ipecacuanha continues firm as apparently there are to be no offers at source until February. Prices of ergot are fully maintained. The price of Indian ACONITE has been marked down from 300s. to 275s. per cwt. CASCARA SAGRADA is a quiet market and inquiry for CASCARILLA is lacking. Spot values for BALSAM TOLU are now in line with the easier shipment position. MENTHOL has attracted a good export inquiry. Business in the home trade for Brazilian menthol has been on a fair scale and spot supplies are in small compass. In SPICES, the spot markets for Nigerian CHILLIES and African GINGER are firmer. A fair business has been done in Dar-es-Salaam BEESWAX and supplies are reported to be low; shipment quotations for this article are at 315s. per cwt., c.i.f. Spot holders of CARNAUBA WAX are asking 475s. per cwt. for fatty grey and 450s. for chalky grey, with only small supplies available.

Trade in the ESSENTIAL OILS markets has been on a moderate scale during the past week. Java CITRONELLA continues firm on spot and forward prices have risen to 6s. per lb. Ceylon citronella has advanced slightly in sympathy. Only small supplies of LEMONGRASS are available on the spot and holders are asking from 6s. 6d. per lb., against 5s. 6d. a week ago. There have been reports from origin of a small crop, which have influenced importers to cable out prices as high as 6s. 7d., c.i.f. There has been very little business done in EUCALYPTUS and the market is easier.

Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	Dec. 1
*Alexandria ...	Piastres to £	97¼—97¾
Amsterdam ...	Florins to £	10.68—10.70
*Bombay	Pence to rupees	1-5 15/16—1-6 1/16
Brussels	Francs to £	176½—176¾
Copenhagen ...	Kroner to £	19.32—19.36
Dutch East Indies	Florins to £	10.68—10.70
*Hong Kong ...	Pence to $	1-2 15/16—1-3 1/16
Lisbon	Escudos to £	99.80—100.20
Montreal	Dollars to £	4.02¾—4.03¼
New York ...	Dollars to £	4.02¾—4.03¼
Oslo	Kroner to £	19.98—20.02
†Paris	Francs to £	1,061—1,063
Rio de Janeiro ...	Cruz to £	75.44 16
*Singapore ...	Pence to $	2-4—2-4¼
Stockholm ...	Kroner to £	14.47—14.50
Zurich	Francs to £	17.34—17.36

* Free market rates
†Forward francs 1 fr. either side par.

U.S. Drug and Chemical Report

New York, November 26

A continuation of recent mild weather has resulted in sluggish demand in the PHARMACEUTICAL CHEMICAL market over the past week. Price movements included a 25 cents per lb. reduction in AMINOPHYLLINE to $8.25 per lb. and a four cents per lb. cut in LEAD OXIDE (YELLOW), N.F., which is now at 33 cents per lb. The MENTHOL outlook continues unsettled, with any increase in demand likely to bring about higher prices. Menthol is now available at $9.05 per lb., which is 10 cents cheaper than a week ago. Little Chinese or Japanese material is available on spot.

Featuring the BOTANICAL DRUGS market this week was the announcement of sharply higher prices for SENNA LEAVES and RHUBARB. Alexandria senna leaves were marked up 7 cents per lb. to 28 cents following the recent Food and Drug Administration rejection of imported supplies and the reluctance of shippers at the primary source to assume any responsibility in this respect; at the same time, Indian stocks of senna leaves are understood to be nearing exhaustion, with new-crop supplies unlikely to be available before next May. A 25 cents per lb. increase in RHUBARB quotations to 85 cents for whole material is attributed to the present situation in China. CARNAUBA WAX was also marked up.

Pharmaceutical Chemicals

AMPHETAMINE.—Quotations for BASE ıd SULPHATE are lower at from 115s. to 20s. per lb. *d*-AMPHETAMINE is available 17s. per oz.

BENZYL BENZOATE. — In good demand. .P. quality is quoted from 4s. 6d. to 5s. r lb., according to quantity; perfumers' ıality, 5s. to 5s. 6d. per lb.

CAFFEINE.—Makers' prices per lb. are: LKALOID, anhydrous, from 34s. 6d. to 9s. 6d., and B.P. from 32s. 6d. to 37s. 6d. ITRATE, B.P.C., 19s. to 24s.: SODIUM ENZOATE, B.P., 21s. 6d. to 26s. 6d.; DIUM SALICYLATE, B.P.C., 22s. 3d. to 7s. 3d.; SODIUM IODIDE, 26s. to 30s. ssorted contracts may be booked (excluding caffeine sodium iodide) for not less ıan 5-cwt. lots over six months. Containers: 14-lb. tins and upwards, free; cwt. kegs or cases, free for export, home ade charged extra (returnable). Carriage aid on net invoice value of £20 or more.

ETHER.—Makers' prices per lb. are: NÆSTHETIC, 1 cwt., 2s. 10d.; 72 lb., s. 11½d. B.P., 5 cwt., 2s. 1½d.; less, s. 3½d. TECHNICAL, 1½d. per lb. less than .P. The foregoing rates are for ether acked in winchesters. In 1-lb. bottles rices are 2½d. per lb. more.

HEXAMINE.—B.P. is quoted at from s. 8d. to 2s. per lb., as to quantity.

ICTHAMMOL, B.P.—Supplies in drums are uoted from 3s. to 3s. 6d. and upwards; ı 28-lb. tins, 3s. 9d. to 3s. 10d.; in 1-lb. ins, 4s. to 4s. 6d. per lb., as to seller.

PARALDEHYDE.—Rates for B.P. material re as follows: 5 carboys, 1s. 5d. per lb.; carboy, 1s. 6d.; 24 winchesters, 1s. 7½d.; 7, 1s. 8½d.; 6, 1s. 10d.; 3, 1s. 11d. per lb.

PHENACETIN.—Supplies continue scarce; ominal prices, from 5s. to 6s. per lb.

POTASSIUM PERMANGANATE. — Makers' ates are as follows: B.P. (in 1-cwt. rums), 1 cwt. and over, 1s. 8½d. per lb.; cwt. and over, 1s. 8d. TECHNICAL (in -cwt. drums), 1 cwt. and over, 166s. 3d. er cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. nd over, 159s. 3d.; 1 ton and over, 56s. 9d.; 4 tons and over, 154s. 3d. TECHNICAL (in 5-cwt. drums), 5 cwt. and over, 56s. 9d. per cwt.; 1 ton and over, 54s. 3d.; 4 tons and over, 152s. Terms, net, carriage paid to nearest station (or ort of departure for Northern Ireland), ontainers extra and returnable.

SALICYLIC ACID.—Makers' quotation for 1 cwt. is 2s. 2½d. per lb.; scheduled rates er lb. for quantities of 28 lb. and under 1 cwt. (containers in brackets) are: 2s. 10½d. (1-lb.); 2s. 9½d. (2-lb.); 2s. 9d. (4-lb.); 2s. 8d. (7-lb.); 2s. 7½d. (14-lb.); 2s. 6½d. (28-lb.). Net one month.

ZINC OXIDE.—Ministry of Supply controlled maximum prices are increased by £12 per ton for all grades, with effect from December 1.

Crude Drugs

ACONITE.—Indian, easier on the spot, is quoted at 275s. per cwt.; *Napellus*, offered at 3s. 10½d. to 4s. 3d., duty paid.

AGAR.—Steady. Japanese strip is offered at 15s. 6d. to 18s. per lb., duty paid, according to quality and holder; forward, 14s. to 15s., c.i.f. South African powder, in tins in cases, quoted at 20s. per lb., spot.

ALOES.—Steady. Cape on the spot is offered at from 110s. to 115s. for prime quality. Curaçao in boxes, 200s. to 220s. per cwt., as to quality. Socotrine, 160s. to 180s. per cwt., spot.

ANISE (STAR).—Little on spot. Prices are about 160s. per cwt.

ANTIMONY.—Metal prices are: 99.6 per cent., regulus, £210 per ton, delivered; 99 per cent., £200; 70 per cent. crude, £165.

ARECA NUTS.—Ceylon is offering at 65s. per cwt., spot London.

ARNICA.—Flowers on spot are offered at prices from 1s. 9d. to 2s. 3d. per lb.

ASAFETIDA.—Persian block on spot is steady at from £14 10s. to £24 per cwt., according to quality and seller.

BALSAMS.—*Canada* on spot is offered at about 19s. per lb. Pará *Copaiba* (soluble) 4s 9d. to 5s. per lb., spot. San Salvador, *Peru*, is quoted at around 5s. per lb., duty paid. Tolu on spot is easier at from 14s. to 14s. 6d. per lb.

BAY LEAVES.—Quotations are steady at from 11d. to 1s. per lb., duty paid.

BELLADONNA.—Yugoslav root is quoted at from 4s. 6d. to 4s. 9d. per lb., duty paid, as to test; English leaves are offering at from 4s. 9d. (0.546 per cent.) per lb.

BENZOIN.—Sumatra block on the spot is now quoted from £14 10s. to £16 per cwt., as to quality; Sumatra almonds, £52 10s. Siam free almonds, spot, £120 per cwt.

BISMUTH.—Metal is steady at 10s. 9d. per lb. for minimum 5-cwt. lots.

BUCHU.—Short-rounds on spot are worth 4s. per lb. Ovals, 3s. 6d. per lb.

CALABAR BEANS.—Steady. Spot quotations are from 10½d. to 11d. per lb.

CALUMBA.—Quiet. Natural root on spot is offered at about 77s. 6d. per cwt.

CAMPHOR.—Steady. Continues in fair demand. Chinese tablets are offered at from 8s. 6d. to 9s. 6d.; refined powder (B.P.), 7s. to 7s. 6d.; B.B. grade, 6s. 9d.; slabs (2½-lb.) from 7s. 3d.; crude powder, 6s. per lb., all spot London, duty paid.

CANTHARIDES. — Spot quotations for Chinese are at about 8s. 3d. per lb.; shipment, 4s. 6d. per lb., c.i.f.

CAPSICUMS.—African on spot is offered at from 80s. to 130s. per cwt., as to quality.

CASCARA SAGRADA.—Quiet. 1946 and 1947 peel are offering at upwards from 200s. per cwt. Current crop on spot is quoted at about 195s., duty paid.

CASCARILLA.—Quiet. Quills are quoted at 1s. 5d. to 1s. 7d. per lb., spot; siftings, 1s. 4d. to 1s. 5d.

CASSIA PODS (*C. fistula*).—Prices of East Indian are around 65s. per cwt., ex wharf.

CHAMOMILE FLOWERS.—Steady. Belgian on spot are quoted at 4s. 3d. per lb.

CHAULMOOGRA.—*Hydnocarpus* on spot is quoted at 1s. 9d. per lb.

CHILLIES.—Mombasa on spot, 110s. per cwt.; forward firm at 105s., c.i.f. Nigerian, spot, 95s. per cwt.; Japanese-type, 160s.

CINNAMON.—Spot quotations for 0000 are at from 2s. 9d. per lb.; quillings are offered at 1s. 4d., featherings at 1s. 3d. and chips at 5d. per lb.

CLOVES.—Zanzibar, spot, quoted at 10½d. per lb.; shipment, 11d. c.i.f. Madagascar, spot, 9d., duty paid; shipment, 7½d., c.i.f. Penang, spot, 2s. 9d. to 3s. per lb.

COCHINEAL.—Quiet. Silver greys, steady at 4s. 3d. per lb., spot; blacks are no longer available at 4s. 6d., any available supplies on spot are worth 5s. per lb.

COCOA BUTTER. — Maximum controlled price is 4s. 11½d. per lb., delivered.

COD-LIVER OIL.—Prices are unchanged. British-produced oil of B.P. quality is quoted from 12s. per gall., delivered in the United Kingdom.

GALANGAL.—In bond quotations are at about 80s. per cwt.

GUM ACACIA.—Kordofan cleaned sorts on the spot are firmer at 66s. 6d.; shipment, 61s. per cwt. Bleached No. 1, 125s., spot: forward, 115s., c.i.f. Prices of Talha on spot are at 45s. per cwt.; forward, 41s., c.i.f.

IPECACUANHA.—Spot quotations are unchanged at 22s. 6d. per lb. Shipment, firm at 20s., c.i.f.

KARAYA.—No. 1 gum on spot is quoted at 215s.; to arrive, 205s., c.i.f. No. 2, 180s. per cwt., spot.

LEMON PEEL.—Supplies are available on spot at 9d. per lb., duty paid.

LEPTANDRA ROOT.—A parcel is offered ex wharf at 3s. 3d. per lb.

LIQUORICE. — Anatolian natural, spot, from 47s. to 50s. per cwt., as to holder; Syrian, 40s.; Russian, 45s. 6d. to 46s. Italian block, 275s. per cwt., spot; Italian stick, from £375 to £560 per ton, as to quantity and grade. Turkish block, from 225s. to 235s. per cwt.; American block from 220s. to 225s.

MACE.—West Indian blade on the spot is easier at 6s. 9d.; pickings, 4s. 6d. to 6s. per lb., according to quality.

MENTHOL. — In good export demand. Brazil on spot is offered at about 45s. 6d. per lb., duty paid; in bond, 43s.; forward, 45s. 6d., c.i.f.

MERCURY.—Steady at £15 per flask, ex warehouse; shipment, £14, c.i.f.

MYRRH.—Steady. Aden sorts, £12 p cwt.; siftings £6 10s. to £7 per cwt., sp

NUTMEG.—West Indian 80's, on the sp 3s.; sound unassorted, 2s. 10d.; worr and broken, 1s. 8d. per lb.

ORRIS.—Steady. Florentine root on t spot is offered at 150s. per cwt.; Vero root, 110s. to 120s. per cwt., spot.

OLIBANUM.—Fair drop is offered at 150 peas at 190s., fair garblings, 125s., a siftings at 80s. per cwt., spot.

ORANGE PEEL.—Spanish quarters, 1s. 2 to 1s 5d., spot; sweet ribbon, 1s. 9 Seville bitter ribbon, 1s. 1d.; thin-c Tripoli, 1s. 2d. per lb.

PAPAIN.—East African No. 1 white the spot is offering at about 19s. per and Ceylon at about 16s. per lb. as seller.

PIMENTO.—Quotations are from 1s. 2 to 1s. 3d. per lb., spot; to arrive, 119s. p cwt., c.i.f.

PODOPHYLLUM.—Steady. American (*p tatum*), spot London, 280s. per cw Indian (*cmodi*) from 315s. to 320s., spo forward, 290s. per cwt., c.i.f.

PSYLLIUM SEED.—French black is quot at 2s. per lb., duty paid; Indian (ispha ula), 120s. per cwt., spot.

QUASSIA.—Spot quotations for chips a 35s. to 36s. per cwt., as to holder.

QUILLAIA.—Natural bark is offering 92s. 6d. per cwt. spot; cut is offered 125s., and crushed at 120s.

QUINCE SEEDS.—Steady. Cape on spot quoted from 4s. 3d. to 5s. per lb.

RHATANY.—A dull market. Spot quot tions are at 9d. per lb.

RHUBARB.—Chinese rough round on sp is firm at from 4s 3d. to 5s. per lb wormy, 2s. 6d. to 3s.; Indian rhapontic offered at 1s. per lb.; French, 1s. 6d.

SANDARAC. — Spot quotations are 5s. 9d. per lb.; afloat, 5s. 6d., c.i.f.

SARSAPARILLA.—Jamaican native red spot is steady at from 1s. 10½d. to 2s. 1 per lb., as to seller. A parcel of grey quoted at 4s. 3d. per lb., spot.

SCAMMONY.—Root (18 per cent. resi on spot is quoted at 65s. per cwt.

SEEDS.—Very small business passing du ing the past week. ANISE.—Cyprus, 1s. 5 per lb., and Turkish, 1s. 4d. per lb., du paid, spot London. CARAWAY.—Dutch now 120s. per cwt., duty paid, spot Lo don. CELERY.—Indian, unchanged at 1s. 2 per lb., spot London or Liverpool. CO IANDER.—Argentine, quiet at 40s. per cwt duty paid, spot London or Liverpool Morocco is slow of sale at 39s. per cwt duty paid, in London. CUMIN.—U changed. Indian, 182s. 6d. per cwt., e store Liverpool; Cyprus, 190s. per cwt spot London. DILL.—Indian is firm a 47s. 6d. per cwt., spot London or Live pool. FENNEL.—Indian is in poor demand

. per cwt. quoted in London or Liver-l. FENUGREEK.—Indian and Morocco ain firm on spot. Indian, spot London. . per cwt., and 54s. per cwt. in Liver-l; Morocco is also quoted at 55s. per t., duty paid, spot London or Liverpool.

SENEGA.—A dull market. Spot quota-ns are from 8s. 6d. to 9s. per lb.; for-rd, 8s. 6d. to 8s. 9d. per lb., c.i.f.

SENNA. — Steady. Tinnevelly leaves, t, No. 1, 9d. to 1s. per lb.; No. 2, 7½d. 8d.; No. 3, 5d. to 5½d.; Tinnevelly ls, hand-picked, 9d. to 1s. 4d.; manu-turing, 4½d. to 5½d. Alexandrian pods, nd-picked, spot, from 4s. 9d. to 5s. 9d., ording to quality and seller; me lium, 9d.; manufacturing, from 1s. to 1s. 9d. lb.; Alexandrian leaves, f.a.q., 1s. 2d. lb.

SHELLAC.—Steady. Spot quotations, ex ndon warehouse, are: F.O.T.N. pure, s.; F.O. Standard 1, 342s. 6d.; fine nge, 350s. to 390s. per cwt.

SQUILL.—Italian white, 63s. to 65s. per t., spot, according to quality and seller.

STRAMONIUM.—Indian on spot is offered 55s. per cwt.; little inquiry received.

STROPHANTHUS.—Steady. *Kombé*, 100 per nt., is offered at 11s. to 11s. 6d. per lb., t.

STYRAX.—Small supplies are to be had about 7s. 6d. per lb., duty paid.

TONKA BEANS.—Steady. Spot quotations e at 5s. 9d. per lb. for blacks.

TRAGACANTH.—Steady. Selected white, per cwt.; other white grades, from £55 £85; pale leaf, £35 to £40; amber, £20 £27; red, £14; hoggy, about £10 10s.

TURMERIC.—Firm. Madras finger on spot maintained at 117s. 6d. per cwt.

UVÆ URSI.—Spot quotations, ex wharf ndon, are around 80s. per cwt.

VALERIAN.—Belgian root on spot is ered at about 130s. per cwt.; cut, 165s. cwt.

WAXES. — Supplies of Dar-es-Salaam ES' are on the low side; spot quotations e at 335s. per cwt.; the forward market firmer at 315s. Benguela is available at 5s., duty paid, in bond, 310s.; forward, 0s. per cwt., c.i.f. CANDELILLA.—Firmer spot at 390s. per cwt.; shipment quota-ns are now at 380s., c.i.f. CARNAUBA.—ime yellow is offered at 710s. per cwt., t; shipment, 650s. per cwt., c.i.f. Sup-es of fatty grey on spot have been eatly reduced and quotations have move l to 475s. per cwt.; shipment, 430s., c.i.f. alky grey, 450s., spot; 415s. per cwt., f. MONTAN.—Reibeck, 285s. per cwt., t; Czechoslovak crude, 270s. OURICURI. 1 per cent., 430s. per cwt., c.i.f. No pplies of 1 per cent. on spot. 2.5 per nt., 435s.; 6 per cent., 422s. 6d.; 9 per nt., 407s. 6d. per cwt., all spot London. ERMACETI.—Spot quotations are un-anged at 2s. 10½d. per lb.

Essential and Expressed Oils

ANISE.—Firm. Chinese star, in drums, is quoted at 5s. 1d. to 5s. 3d. per lb., with up to 6s. 6d. for smalls; afloat, 5s. 1½d., c.i.f.; for shipment, 5s. 2d.

BAY.—West Indian on the spot is quoted at from 6s. 6d. to 7s. 6d. per lb., according to quantity.

CAMPHOR.—White oil on spot is quoted at from 2s. 6 l. to 2s 8d. per lb., duty paid. Shipment offers of brown are at 2s. 9d., c.i.f.

CARAWAY. — English-distilled is firmly held at 37s. to 40s.; imported, 28s. to 30s. per lb., as to quantity.

CASSIA. — Spot quotations are from 13s. 6d. to 15s. per lb.; forward, 10s. 6d., c.i.f.

CASTOR.—Prices are unchanged. B.P. quality is priced at £176 per ton, naked ex works. In 45-gall. drums, oil is quoted at 16s. 11d. per gall., carriage paid.

CITRONELLA.—Ceylon is firmer at from 3s. 9d. per lb., spot, forward, 3s. 9d., c.i.f., nominal. Java on spot is firm at from 7s. 6 l. per lb.; shipment is quoted at 6s., c.i.f.

EUCALYPTUS.—Easier. Prices of 70-75 per cent. (B.P.) are from 3s. 1d. to 3s. 3d. per lb. for drums, and up to 4s. for smaller quantities; shipment, 3s., c.i.f.

GERANIUM.—Bourbon is firm on spot at from 47s. to 55s. per lb., as to grade.

GINGER.—Prices are from 85s. to 100s. per lb., according to grade and seller.

GUAIACWOOD.—Spot quotations are unchanged at from 18s. to 20s., according to holder.

JUNIPER BERRY.—Steady. English-distilled oil is quoted at from 95s. to 100s. per lb.; imported oil is offered at 25s. to 30s. per lb., according to seller.

LAVENDER.—French, 38-40 per cent., on spot, is quoted at from 14s. to 16s. per lb.; 40-42 per cent., 15s. 6d. to 18s. Spanish spike is offered at from 8s. 6d. to 10s. 6d., spot.

LEMONGRASS.—Firm. Only small supplies on the spot and prices are from 6s. 6d. to 6s. 9d. per lb. Shipment, 6s. 7d., c.i.f., nominal.

PATCHOULI.—Singapore on the spot is quoted at from 27s. to 30s. per lb. Seychelles oil is at about the same prices.

SASSAFRAS.—Spot offers are at from 5s. 3d. to 6s. 6d. per lb.

TEASEED.—Spot supplies are offered at from 35s. to 36s. per gall. of 9 lb.

TEREBINTH.—Quotations for B.P. oil are from 1s. 6½d. to 1s. 10½d. in winchesters, and 1s. 5d. per lb. in carboys.

THYME. — Red oil (40-42 per cent. phenols), 12s. 6d. to 15s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 7s. 6d. to 8s. per lb., according to quantity.

COMING EVENTS

Monday, December 6

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Birmingham, at 8 p.m. Mr. C. W. Maplethorpe (chairman of the Society's Education Committee) on "Education."

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Church Institute, 27 Romford Road, Stratford, London, E.15, at 8.30 p.m. Symposium on dispensary design.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Central Library Hall, Beckenham, at 8 p.m. Mr. D. G. Ardley, M.P.S., on "Sulphonamide Therapy."

LONDON AND SOUTH-EASTERN COUNTIES' SECTION, ROYAL INSTITUTE OF CHEMISTRY, Norwood Technical Institute, Knight's Hill, London, S.E.27, at 7 p.m. Mr. Adrien Albert, D.Sc., F.R.I.C., on "Drug Action, Ions and Neutral Molecules."

Tuesday, December 7

MANCHESTER PHARMACEUTICAL ASSOCIATION, Council Chamber, Houldsworth Hall, Manchester, at 7.45 p.m. Reading of papers on the B.P., 1948.

WOLVERHAMPTON CHEMISTS' ASSOCIATION, Povey's Restaurant, Victoria Street, Wolverhampton, at 7.30 p.m. Mr. F. R. C. Bateson, B.Pharm., Ph.C., on "Comments on the B.P., 1948."

PHARMACEUTICAL SOCIETY OF IRELAND, Gresham Hotel, Dublin. Dance in aid of Benevolent Fund.

Wednesday, December 8

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Institute of Accountants and Actuaries, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Dr. D. McCall (resident secretary, Scottish Department of the Society) on "Pharmaceutical Organisation and Representation under N.H.S."

WEST LONDON BRANCH, PHARMACEUTICAL SOCIETY, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Mr. F. Lewis Watson on "Rearrangement and Redesign of the Dispensary."

WIMBLEDON PHARMACISTS' ASSOCIATION, Zeeta House, Putney, 6.30-11.30 p.m. Dinner and dance.

Thursday, December 9

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 8 p.m. Sir Percival Hartley, C.B.E., M.C., D.Sc., F.R.S., on "Biological Substances of the B.P., 1948" (first of two lectures).

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Chamber of Commerce, Guildhall, Small Street, Bristol, at 7.15 p.m. Film show presented by Evans Medical Supplies, Ltd.

DUNDEE AND EAST AND CENTRAL SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Royal Hotel, Union Street, Dundee, at 7.30 p.m. Mr. A. G. Fishburn, Ph.C., on "Some New Ideas on Drug Formulation."

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Hotel Metropole, Leeds, at 7.30 p.m. Mr. H. Noble, B.Pharm., Ph.C. (deputy secretary, N.P.U.), on "N.H.S. Problems and Prospects."

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, London School of Hygiene and Tropical Medicine, Keppel Street, London, W.C.1, at 7 p.m. Dr. W. A. Sexton on "The Chemistry of Plant Growth Regulators."

Friday, December 10

HULL BRANCH, PHARMACEUTICAL SOCIETY, Central Chambers, 52 Ferensway, Hull, at 7.30 p.m. Mr. C. Beaven, Ph.C., A.R.I.C., on "The Riddle of Allergy."

BIRKENHEAD AND WIRRAL BRANCH, NATIONAL PHARMACEUTICAL UNION, Central Hotel, Birkenhead at 7.45 p.m. Mr. H. Noble, B.Pharm., Ph.C (deputy secretary, N.P.U.) on "Problems an Prospects" (meeting open to N.P.U. member only).

Monday, December 13

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY Polygon Hotel, Southampton, at 7.30 p.m. Mr F. C. Wilson (a member of the Society's Council) on "From Now On."

TRADE MARKS

(From the "Trade Marks Journal," November 17

"ORGARITE"; by Fisons, Ltd., Ipswich; 656,978 For artificial fertilisers (1).

"ATAMON"; by Victor Emanuel Bekmand Stranc Copenhagen; 662,671. For preserving chemica (1).

"WITCO" in diamond shape; by Witco Chemic Co., Ltd., London, W.1; 662,256. For chemic substances used in manufacture, photography research (1).

"BETANEX"; by Imperial Chemical Industrie Ltd., Slough; 664,418. For industrial and agr cultural chemical products; preserving and tan ning substances, excluding photographic chem cals (1).

"FERRANIA"; by Societa per Azioni Ferrani Milan; 664,852-53. For photographic film plates and papers (1). For photographic appar tus (9).

"CULINEX"; by Timothy Whites & Taylors, Ltd Leeds; 665,843. For waterglass (1).

"POSTA"; by Rapide, Ltd., South Shield 666,119. For sensitised photographic films (1

"WILTONAIR"; by John Wilson & Co., Nottin ham; 648,303. For colour-restoring preparatio for the hair (3).

"AVANT L'ETE" and "BYZANCE"; by Socié Anonyme Grenovill, Asnières, Franc 652,844-45. "PLATINOSEL"; by Eugene Schue ler, Paris; 664,329. "VITALONG"; by And Goldfard, Paris; 664,505. For non-medicate toilet preparations (3).

Device of horseshoe and hand clasping pestle; b C. R. Harker, Stagg & Morgan, Ltd., Londo E.1; 658,606. For all goods (3).

"SNOWIT" on label design including a lion; b the O.K. Shaving Cream Co., Ltd., Londo W.C.1; 659,693. For shaving creams and soa (3).

"VICURA"; by Harold Charlton, Manchester 652,697. For medicated preparations for huma use in the treatment of hæmorrhoids (5).

"POMAROL"; by British Continental Drugs, Ltd London, S.E.11; 653,243. For ointments for u in the treatment of piles, etc. (5).

"TACT"; by Colgate-Palmolive-Peet, Ltd., Lo don, S.W.1; 656,995. For deodorants (5).

"BONOGUM"; by Westminster Laboratories, Ltd London, W.C.2; B658,839. For medicate chewing gum (5).

"THAMINOPOL"; by Imperial Chemical (Pharma ceuticals), Ltd., Slough; 664,863. For pharma ceutical preparations, sanitary substances an disinfectants (5).

"ASCODEN"; by Duncan, Flockhart & Co., Lon don, E.C.1; 664,989. For medicinal preparation in tablet form (5).

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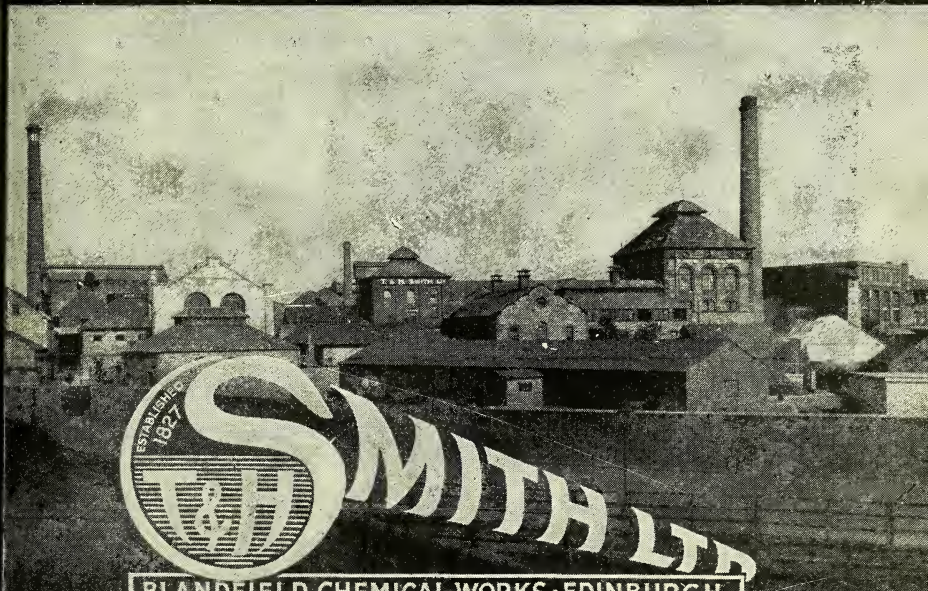

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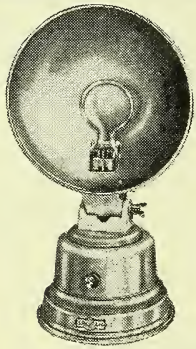

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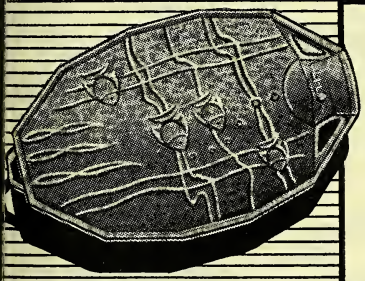

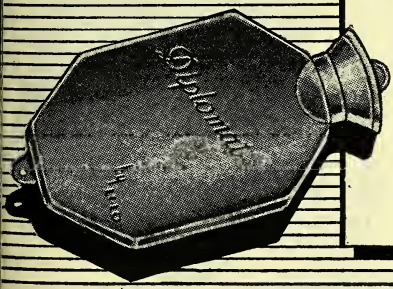

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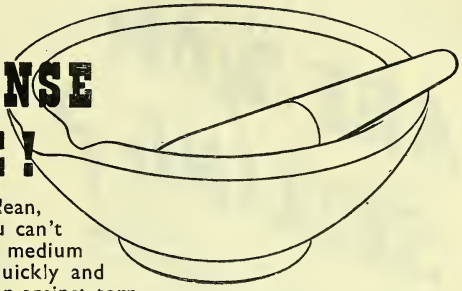
This is the scarlet and pink tin that catches the customer's eye — outstanding on your shelf, compelling in its attractiveness; WYLIE'S Abrasive HAND SOAP is kind to sensitive skins, it cleans and protects hands, making them soft and supple while gently removing grime. No grit, acid or caustic. A quality line worthy of warm recommendation. Write us now for full details.

NO COUPONS
1/3
IN THE PINK AND RED TIN

WYLIE'S CLEANSERS LTD., 12 DARTMOUTH STREET, LONDON, S.W.1

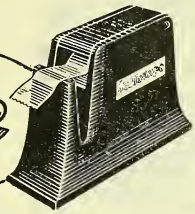
U CAN'T DISPENSE ITH SELLOTAPE!



the other hand, once you've used this clean, lern sealing strip, you'll find that you can't ense without it! Sellotape is the ideal medium sealing jars, tins and boxes neatly, quickly and enically and it gives perfect protection against torn stained labels. Prescribe a sample roll of Sellotape *your* Dispensary right away.

Sellotape

SELF ADHESIVE CELLULOSE TAPE



Available in eight standard widths; colourless or in eight colours. Also supplied in small rolls and dispensers for resale to the public.

RDON & GOTCH LTD., Dept. CD.10, 75/79, Farringdon Street, London, E.C.4

GARDINER'S *FOR*

ACKETS

FINE WHITE DRILL, 2 coupons
Button 3, 3 Outside Pockets.
Chest—34" to 46" - 14/6
Post and packing 1 or 2—9d.

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WHITE DRILL, 3 coupons
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Chest—34" to 46" - - 19/9
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Post and packing 1—9d., 2—1/-
ALL SHRUNK

State Chest Measurement. Send Cash and Coupons with Order, over £2 Carriage Paid.

ARDINER & CO. (The Scotch House) Ltd.
3 & 5 COMMERCIAL ROAD, LONDON, E.1
pos te Aldgate East Station 'Phone: BIS 6751 (3 lines)
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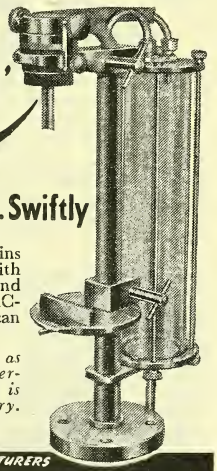
VACFILL TRADE MARK

Fill it by 'Vacfill'



Simply...Cleanly...Swiftly

Correct filling of bottles, tins and other containers, with lotions, emulsions, oils and other liquids—the "VACFILL" Filling Machine can do the job.

The Single Head Model as illustrated is efficiently operated by the unskilled and is available for early delivery. Full details upon request.

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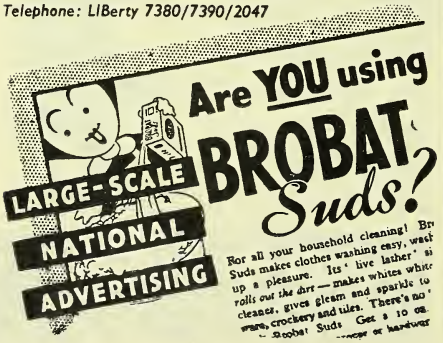
TAYLOR 2014

ARE YOU SELLING?

THIS SENSATIONAL NEW WASHER!

Intensive National and Local Advertising, backed by a really magnificent product at the economical price of 8½d. per 10 oz. box, is firmly establishing BROBAT SUDS as the perfect, all-purpose, soap-saving household washer. Get on to this line at once by writing or telephoning

BROBAT MANUFACTURING CO. LTD
WANDLEBANK, WIMBLEDON, S.W.19
Telephone: LIBerty 7380/7390/2047



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Buy National Savings Certificates th Bank way — it is simple, automatic and witho any additional charge to you. You just sign th special Banker's Order form which your Ba Manager can now give you, authorising either single purchase of National Savings Certificate or a regular monthly investment. That is all yo have to do—and with a stroke of the pen you w have helped to secure your own future, and yo country's prosperity.

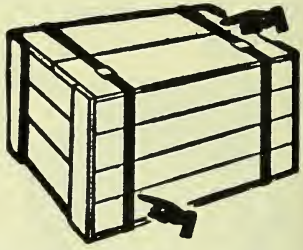
You can now hold 1,000 10/- units of the ne Certificate, and in ten years this £500 will ha grown to £650 free of tax. Secure for yourse this profitable gilt-edged investment by calling o your Bank Manager.

SAVE—*The Bank Wa*

Issued by the National Savings Committee

USE :—

Wire Bands
BANDING SYSTEM
It's speedy! It's simple!!
Above all—It's Secure!!!



THESE BANDS WILL ENSURE YOU GOODS ARE DELIVERED INTAC

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PRECISION MADE

PARTITIONS

AND CARTONS
FOR ALL PURPOSES

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Now offer wide range of

MEDICATED PASTILLES
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CHEWING GUM (including non-medicated) CHEMISTS' CONFECTIONERY AND TOILETRIES

Specially made and attractively packed for chemist trade only

All products of highest standard manufactured under ideal conditions

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EGG PRESERVATIVE

("Dry-Sealing" Process)

THE STORAGE OF EVERY SURPLUS EGG WAS NEVER MORE IMPORTANT

Eggs sealed by one quick dip and perfectly preserved for twelve months and more, stored in any box or basket. They boil or whip like new laid. OTEG only seals the shell. Ready for use. No pails of chemicals required.

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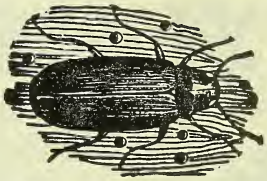
Small Household size... 5/10d. (500 Eggs)
Large Household size ... 9/2d. (1,000 Eggs)

OTEG is still in very short supply. Available stocks are being distributed as evenly as possible, and when normal conditions return, full distribution will be resumed.

Trade Terms on Application to Manufacturers

SOZOL (1924) LTD. 2 Copthall Buildings, London, E.C.2



MORE AND MORE PEOPLE
ARE ASKING FOR

RENTOKIL TIMBER FLUI

THE WOOD WORM DESTROYER

Rentokil Timber Fluid is backed by extensive press advertising. The sales are rising rapidly—do you stock Rentokil Products—if not

Get your stocks now

Write to: **RENTOKIL LTD., Dept. C.D., School Lane, Fetcham, Surrey.** *Tel.* Leatherhead 4021/2

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LIQUID SPRAY

Specially prepared for Household use

NON-INFLAMMABLE. NON-STAINING.
Ready for immediate use.
Full directions on each container.
Also In Powder Form. Samples and prices available to Wholesalers from Manufacturers.

LEDA CHEMICALS LTD
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Sole Agents for N.Ireland: Whyte, Reid & Mitchell, Ltd. 61/63 Donegall Pass, Belfast.
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Chemists only

HAROLD WESLEY LTD.
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21 MILLION MEN & WOMEN WANT TO cut down smoking!

SIMPLY DISPLAY . . .

. . . . AND SEE SALES SOAR!

NICOTEX tablets reduce the craving and by controlling the smoking habit help to save the public money. Harmless, pleasant taste, non-habit forming. It's the quickest selling line today so don't miss the opportunity of quick sales and good returns. Retails at 1/6 per tube of 20 tablets. Packed in attractive counter display outers of 3 dozen.

Trade terms from the Sole Proprietors

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To departmental stores in the United Kingdom

HERTS PHARMACEUTICALS, LTD.

manufacturers of Nivea Creme and other Nivea products are pleased to announce that they have appointed

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as Sole Distributors of these products to Departmental Stores in the United Kingdom.

Chemists will be supplied as in the past either direct from the manufacturers or through their agents Messrs. Thos. Christy & Co. Ltd., Farnham, Surrey, or through their usual wholesaler.

Skin needs NIVEA

(1)

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SHE LOOKS TO *you* FOR PROFESSIONAL ADVICE

he responsibility to give professional advice when called upon has aced pharmacy in a position of high honour and esteem. It is a service pecially valued by women particularly in matters exclusively feminine. /hen it is a question of family limitation it is always wise to suggest endells. Three generations in all parts of the world have proved the iginal full strength formula completely dependable and recent clinical sts confirm there is no safer or better contraceptive.

Rendells

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THE POPULAR COUGH SYRUP

Good for
the young
and
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the old

Supplies may be obtained from C.F Wholesale Houses

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FIRST AID

DRESSINGS

FABRIC ELASTIC

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"CROCUS" CORN COMFORT

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WILMATH TRADE MARK

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And now the **TEAT** *with* **ALL** *the selling points*

- **CUSHIONED FOR MOUTH-COMFORT** see special moulded ribs
- **EASY FITTING** note divided stem
- **PURE LATEX CONSTRUCTION** permits repeated sterilization
- **EXTRA SAFE BOTTLE-GRIP** by moulded safety ring
- **ANTI-COLIC DESIGN** medically recommended
- **ALWAYS SOFT AND RESILIENT** smooth feed flow

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PATENTS APPLIED

MARIGOLD REG'D. *Cushion* TEAT

Companions in Comfort

MARIGOLD REG'D *Cushion* COMFORTER

BRITISH AND FORE
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NOW!

Silvikrin Lotion

with OIL!

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he makers of famous SILVIKRIN products have pened up a vast new market for YOU. Literally mil-ons of men and women in search of an effective tonic nd dressing for dry, brittle hair and scurfy scalps are nding the answer in Silvikrin Hair Tonic Lotion ITH OIL. They are buying it . . . trying it . . . *and uying it again*, because it provides what they have lways needed, a health-giving daily lotion PLUS pecial oils to correct excessive dryness of hair and calp, PLUS the wonderful properties of Pure ilvikrin! Don't be 'old man out' with this big ew seller . . . order NOW.

Silvikrin

LOTION *with OIL*

Order from your usual wholesaler or for best terms on larger quantities from:
Distributors of Silvikrin products, **SCOTT & BOWNE LTD.** Winchester House, Old Broad Street, London, EC2

A DELICATE SUBJECT — FOR DELICATE SKINS

The TOTTY-POT

Rubber Ringed for Cushion Comfort

Trade Mark "Totty Pot" Patent applied for

A NON-CORROSIVE ACID-PRO
HYGIENIC CHILD'S CHAMB

Detachable ring, easily removed cleaning purposes

Made of Aluminium

ANODISED IN SOFT PASTEL SHADE

SOLE MANUFACTURERS
J. BILLIG & SONS LTD.,
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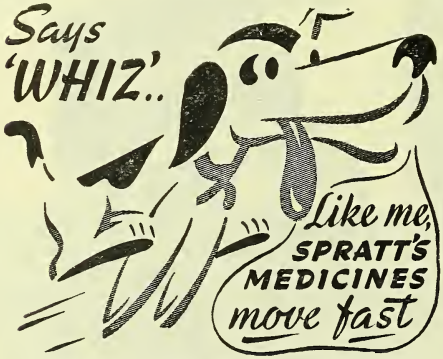
BILTIN WORKS, FONTHILL Rd LONDON N.4
TELEPHONE: ARCHWAY 2753 & 3858

Says 'WHIZ'..



Like me, SPRATT'S MEDICINES move fast

In the newly designed Red topped packets Spratt's Dog Medicines and Cat Medicines make an attractive appeal. Famous for over 80 years, these now represent today's quickest moving line of speciality sundries.

SPRATT'S DOG MEDICINES

the formula is on the packet!

SPRATT'S PATENT LTD., 41-47 BOW RD., E.3.

PERCENTA
THE CONTAINER PEOPLE
(PERCENTA LTD.)
Containers of Met
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"RODINE"
RAPID RAT REMOVER
Always in demand
T. HARLEY LTD., PERTH, SCOTLAND

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SPECIALISTS
in the design and fitting of the Modern Pharmacy

Let us advise you on the construction o
a NEW Shopfront

Write or Phone GLAdstone 9788
RELIANCE BUILDING CO. (Shopfitters
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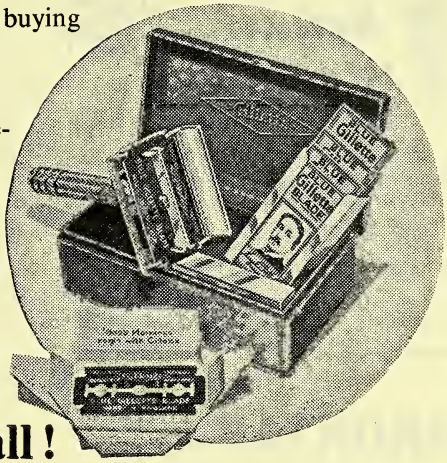
She's going to give him a new

Gillette razor set!

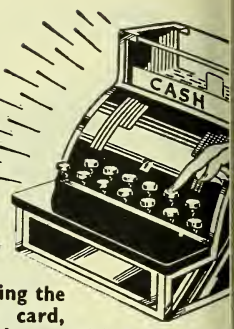
Thousands of women will soon be buying Gillette razor sets for Christmas presents. In addition to normal Gillette advertising, a special pre-Christmas campaign concentrating on the gift theme, and appealing to women, will be appearing. Add a good display of sets in your own windows . . . and the outlook for your Christmas trade is bright !



Let her see them all!

Trade enquiries to your usual wholesaler or direct to
Gillette Industries Limited, Great West Road, Isleworth, Middlesex

The Brand that rings the bell!



Keep your cash register busy by showing the attractive "Autumn Sun" display card, linking up with "Autumn Sun" national advertising. These, plus "Edme" quality and "that butterscotch flavour," ring a bell with the public.

NATIONALLY ADVERTISED
Advertising in national Press will appear throughout the Season. FREE—handsome Jar-holder display showcard in full colour creates sales.

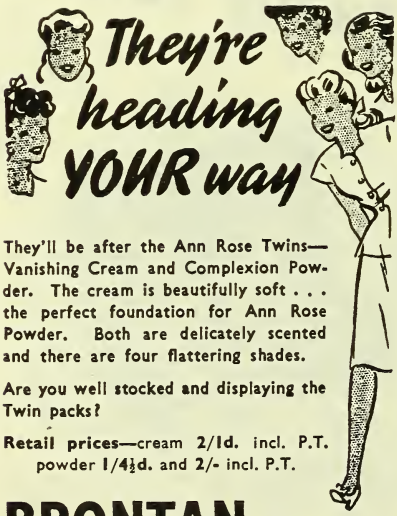
EDME Autumn Sun

MALT AND OIL

Manufactured from finest ingredient obtainable. *Full particulars from :*

EDME LIMITED · IMPERIAL HOUSE, REGENT ST., LONDON W.

TELEPHONE REGENT 5563-4



They're heading YOUR way

They'll be after the Ann Rose Twins—Vanishing Cream and Complexion Powder. The cream is beautifully soft . . . the perfect foundation for Ann Rose Powder. Both are delicately scented and there are four flattering shades.

Are you well stocked and displaying the Twin packs?

Retail prices—cream 2/1d. incl. P.T. powder 1/4½d. and 2/- incl. P.T.

BRONTAN (Regd.), Ltd.,

1 BROAD STREET BUILDINGS, LIVERPOOL STREET, LONDON, E.C.2

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TABLETS

Really Stop Pain

A double power analgesic in ever increasing demand. Prompt delivery from all wholesalers or direct from

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4d, 7½d, 1/7 and 2/9 Incl. P. Tax

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We are prepared to undertake the sole distribution and sale in the British Isles of an additional non-competitive line sold through chemists. It may be an established product, or one capable of being developed, and must be of unquestioned quality and definite merit. The Company is also open to consider manufacturing it in their large and modern factory premises in South Wales. Write in confidence to Director, Don S. Momand Ltd., 57 Albany Street, London, N.W.1.

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Sole Distributors of

ALKA-SELTZER

Effervescent Analgesic Alkalizing Tablets

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Urine-Sugar Analysis

DENTESIVE

Denture Fixatives

JUST OUT: *The Completely Revised, Greatly Extend*

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containing 7,048 Ready-to-Use Industrial Recipes & Processes

Just off the press: the revised, extended, first post-war *Manufacturers' Practical Recipes*, **containing hundreds of hitherto unpublished recipes for an enormous variety of preparations.**

Manufacturers' Practical Recipes is packed with 7,048 suggestions for sales-increasing preparations and commodities. It bristles with laboratory-tested, immediately usable recipes for a vast range of products, and for most industries —with new, money-making ideas and pointers to unexplored markets. So clearly are these recipes classified and indexed that you can find any you need in a few seconds; and if you want to produce something entirely new or to improve an existing line, you will find *Manufacturers' Practical Recipes* a never-failing source of inspiration. And just one of its recipes, aptly applied, will repay you many times the moderate cost of the Volume.

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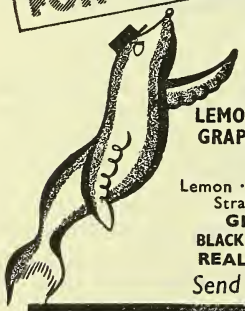
Disinfectants; Enamels; Paints Distempers; Boiler Cements; M Cleaners; Fertilisers; Veteri Remedies; Soaps; Inks; Lau Blues; Boot and Leather Prep tions; Beverages; Cosmetics; L Gold Sizes; Animal Foods; Ca and Candlemaker's Polishes; F ture and Leather Polishes; Foods Driers; Explosives; Starches,

Supplies are short: ORD NOW. **Advance orders absorbed the greater part o edition: to secure one of the remaining copies you must re the coupon at once.**

DAVIS FOR SOFT DRINKS!



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Lemon · Orange · Raspberry
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"CRUSADE BRAND"

Glycerine Lemon Honey and Ipecacuanha
(with Glucose)

In 3 oz. Bow Panels (Plastic Caps) 8/6d. per dozen plus P.T. 33 1/3%
Retail price 1/6d. per bottle

ORDER YOUR WINTER REQUIREMENTS NO ORDERS FOR 1 GROSS LESS 5% DISCOUN

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A leader in the analgesic field for years, Koray is regarded as "First-Aid" in case of pain by men and women of all ages, in all parts of the country. Backed by widespread and consistent National advertising, it is a real front-of-the-counter line.

HARROGATE HEALTH SALTS

Your stock is incomplete without this superior pharmaceutical product, with its added advantage of delicious lemon flavour.

LISSOIDS

A recent introduction which has met with instant success. Sells on sight and repeats in satisfaction.

BETALAX

Firm favourites not only with the kiddies—"Children love them"—but also with grown-ups. A certain and steady seller.

SEND YOUR ORDER NOW TO:

RAY LTD., GOLDEN MILE WORKS, BRIDGEND, GLAMORGAN

MENTHOL TURIOPIN OIL

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3 MAIN INDICATIONS FOR ITS USE

BRONCHITIS	Alleviates irritating coughs and by liquifying phlegm facilitates and lessens expectoration.
CONGESTIVE CATARRHS	Relieves catarrhs at the seat of the trouble; contracts the capillary blood-vessels checking discharge.
HAY FEVER	Rapid relief is obtained, sneezing arrested and pain and fullness of the head quickly reduced.

NOTE: MENTHOL TURIOPIN OIL furnishes an excellent supplementary treatment to the RIDDOBRON Therapy for Asthma and Allied complaints.

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VIRDOX REG
nutrition

Rewards Regular Users with Fre
Energy. VIRDOX Powder in 3/6 ti
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75 KINGSWAY, LONDON, W.C

THE RELIABLE
Edosan
SANITARY TOWELS
PURE COTTONWOOL THROUGHOUT

EDOSAN LTD. 189, CARLTON VALE, LONDON N

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AND A GRAND SELLER!

Have you seen it?

PUT THE DISPLAY IN YOUR WINDOW AS SOON AS YOU GET IT

new 'ASPRO' display is a credit to any window. attractive—and effective. It makes the passer-by , and look—and it turns passers-by into customers record rate. Window space devoted to 'ASPRO' pace that REALLY pays because national adver- g and proved service have made 'ASPRO' a duct which MOST PEOPLE WANT. Nine times of ten, people already have it in their minds uy 'ASPRO', and a display turns the thought a purchase—in your shop. Your customers ciply—sales in your other lines increase. are, in fact, tapping a great reservoir of ic demand, for

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The above display is now available. If you have not already received one, cut out and send this coupon—the display will be posted back by return.

Please send me the new 'ASPRO' display

Name .....

Address .....

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FIRST TIME IN BRITAIN

Lantigen

SERIES OF

DISSOLVED ORAL VACCINES

now available here after 12 years' successful experience in Australia.

LANTIGEN 'A' For the prophylaxis and treatment of the **COMMON COLD.**

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BOXED SINGLY and IN DISPLAY OUTERS

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TEATS (Straight and Cherry) . 2/3 dz. 4 dz. in show outer.

SOOTHERS ALL Rubber . . . 6/- dz. 2 dz. in show outer.

JAYNOX SUNDRIES

including :—

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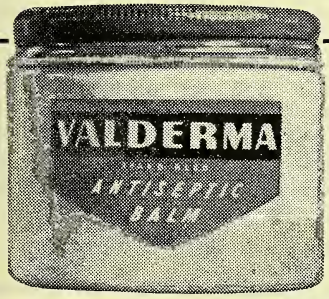

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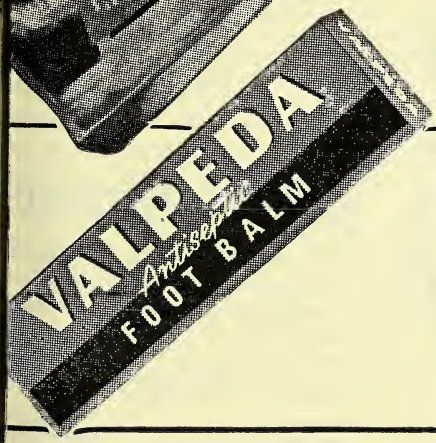

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IST requires lady assistant with Hall certi- London north area. Hours 9-6. Apply Box

LONDON, S.E. Unqualified assistant required for family business; must be an accurate dispenser. Good prospects. Please give full details of previous experience and age to Box 5/222.

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F. R. MILLET.
Secretary to the Management Committee.
23rd November, 1948.

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